SERVICE MANUAL

AP-1E CHASSIS

MODEL

COMMANDER

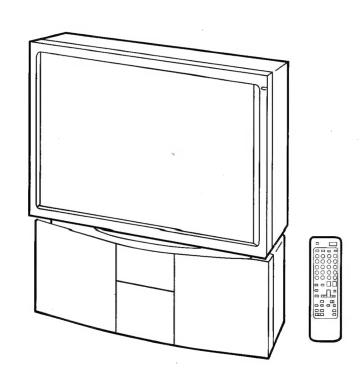
DEST.

CHASSIS NO.

KP-S4613/2 RM-842

AEP

SCC-H08A-A





TRINITRON © COLOUR TV SONY

ITEM MODEL	Television system	Stereo system	Channel coverage	Color system
AEP	B/G/H,D/K L, I	GERMAN/NICAM Stereo	PAL B/G/H: E02-E12, E20-E69 CABLE TV (1): S01-S41 CABLE TV (2): S01-S05, M01-10, U01-U10 ITALIA: A, B, C, D, E, F, G, H, H01, H2, H21-H69 SECAM D/K: R01-R12, R21-R60 SECAM L: F02-F10, F21-F69 PAL I: B21-B68	PAL,SECAM NTSC3.58, NTSC4.43 (VIDEO IN)

MODEL	AEP
Power consumption	188W

Specifications

Picture tube

Approx. 116 cm (46 inches)

Input/Output Terminals

[REAR]

ö- 1 21-pin Euro connector (CENELEC standard)

- Inputs for audio and video signals

- inputs for RGB

- outputs of TV video and audio signals

→ 2/ 2 21-pin Euro connector

inputs for audio and video signals

inputs for S video

outputs for audio and video signals (selectable)

→ 4/+ 4 21-pin Euro connector

inputs for audio and video signals

- inputs for S video

- outputs for audio and video signals (monitor out)

3 2, 3 4 S video inputs

4 pin DIN

O Audio inputs (L, R) -phono jacks

→ S video output - 4 pin DIN

Audio outputs - phono jacks

→ Audio outputs (variable) - phono jacks

External speaker terminals: 2-pinDIN

[FRONT]

3 Video input-phono jack

Audio input-phono jacks

3 S video input 4-pin DIN

Ω Headphone jack: Stereo minijack

Sound output

2x30W (Music power)

Dimensions

(incl.speakers)

Approx. 1103.9 x 1289.1 x 511.8

mm

Weight (incl. speakers) Approx. 83 kg

Supplied accessories

RM-842 Remote Commander (1)

Other features Digital comb filter (High resolution)

PIP (Picture-in picture)

NICAM FASTTEXT

[RM-842]

Remote control system infrared control

Power requirements

3V dc

2 batteries IEC designation

R6 (size AA)

Dimentions

Approx. $65 \times 222 \times 21 \text{ mm (w/h/d)}$

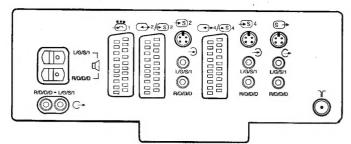
Weight

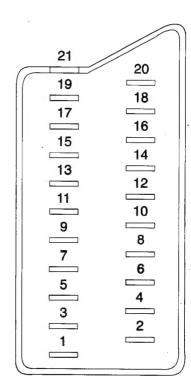
Approx. 157g (Not including Batteries)

Design and specifications are subject to change without notice.

Model name	
	KP-S4613/2
Item	
Pal Comb	ON
PiP	ON
RGB Priority	ON
Woofer box	OFF
NICAM	ON
Scart 1	ON
Scart 2	ON
Front in (3)	ON
Scart 4	ON
Dyn. Convergence	OFF
Projector	ON
AXB in 16:9 mode	ON
Norm B/G	ON
Norm I	ON
Norm D/K	ON
Norm AUS	OFF
Norm L	ON
Norm SAT	OFF
Norm M	OFF
Language Preset	AEP

21 pin connector (→Ö1 →2 / →4)





Pin No	1	2	Signal	Signal level
1	0	0	Audio output B (right)	Standard level: 0.5Vrms Output impedance:less than 1kohm*
2	0	0	Audio input B (right)	Standard level:0.5Vrms Input impedance:More than 10kohms*
3	0	0	Audio output A (left)	Standard level:0.5Vrms Output impedance:less than 1kohm*
4	0	0	Ground (audio)	
5	0	0	Ground (blue)	
6	0	0	Audio input A (left)	Standard level:0.5Vrms Input impedance:More than 10kohms*
7	0	•	Blue input	0.7V±3dB, 75ohms, positive
8	0	0	Function select (AV control)	High state (9.5—12V):Part mode Low state (0—2V):TV mode Input impedance:More than 10kohms Input capacitance:Less than 2nF
9	0	0	Ground (green)	
10	0	0	Open	
11	0	•	Green	Green signal:0.7V±3dB. 75ohms, positive
12	0	0	Open	
13	0	0	Ground(red)	
14	0	0	Ground (blanking)	
15	0		Red input	0.7V±3dB, 75ohms, positive
	_	0	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	0	•	Blanking input (Ys signal)	High state (1—3V) Low state (0—0.4V) Input impedance:75ohms
17	0	0	Ground (video output)	
18	0	0	Ground (video input)	
19	0	0	Video output	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
20	0	_	Video input	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
	_	0	Video Input/Y (S signal)	1V±3dB, 75ohms, positive Sync:0.3V(~3, +10dB)
21	0	0	Common ground (plug, shield)	

4 pin connector (-S)

Pin No	Signal	Signal level
1	Ground (audio)	
2	Ground (blue)	
. 3	Y (S signal) input	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
4	C (S signal) input	0.3V±3dB, 75ohms, positive

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

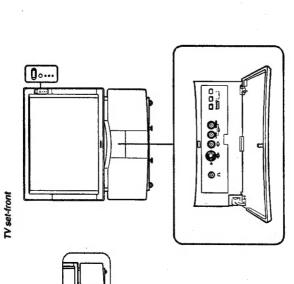
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE
SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS
LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE
COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS
APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

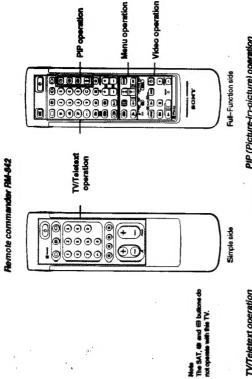
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Overview

This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.



Symbol	Name	Refer to page
0	Main power switch	14
Đ	Standby indicator	7
A-CD-B	Stereo A/B NICAM indicators	1
U	Headphones jack	8
-® 3,-D3,-D3,	Input jacks (S vide o/video/audio)	83
9-7-	Function selector (ProgrammeVolumeAnput)	‡
+	Adjustment buttons for function selector	7



Symbol Name Refer to page 4 Multie or/off button 15 Co PIP out/off button 18 0 Standby button 14 t PIP source selector 18 0 Standby button 15 Co Swap button 18 0 button 15 Amanual Amanual PiP position changing button 18 0 button mode selector 15 Amanual Aman	I VI I CICK	I VI reference operation		יוג (גונית	rir (ricinies) spicinies operanon	
Mute envoit button 15 Complete provide button 1 V power ov/TV mode selector 14 t PIP source selector 1 V power ov/TV mode selector 15 Amount on Swap button 1 Input mode selector 15 Amount operation 9 pand 0 Output mode selector 15 Amount operation 0 button 24 Symbol Name 9 pand 0 Double-digit entering button 14 A+√√ - Select buttons L. Volume control button 14 ← Back button Decident partners alectors 14 ← Back button Sound adjustment button 16 Wideo operation Picture adjustment button 16 Wideo operation On-screen display button 16 Wideo equipment selector Time display button 16 WIRN USE MEMUSE Time display button </th <th>Symbol</th> <th>Name</th> <th>Refer to page</th> <th>Symbol</th> <th>Name</th> <th>Refer to page</th>	Symbol	Name	Refer to page	Symbol	Name	Refer to page
Standby button Ty power on/TV mode selector Ty power on/TV mode selector Ty power on/TV mode selector I select button To the chain selector I select button To the chain selector To the chain selector Double-dopt entering button To the chain selector To the chain		Mute on/off button	15	Ð	PIP on/off button	50
TV power or VTV mode selector 14 CP Swap button	•	Standby button	*	-	PIP source selector	18
Patient button Taletact buttons Taletact button Taleta	0	TV power on/TV mode selector	7	69	Swarp button	81
Teletard button 15		Putton		•	PIP position changing button	18
Symbol Menu operation 15 Menu operation 14 Symbol Menu on/off button 14 Symbol Menu on/off button 14 ∆+√√ Select buttons 15 Menu on/off button 15 ∆+√√ Select buttons 16 ∆+√√ Select buttons 17 OK OK(confirming)button 14 ← Back button 15 Oktoor operation 16 Symbol Menu on/off button 16 Menu on/off button 17 Menu on/off button 18 Menuoon/o	•	Teletext button	5			
24.5.6. Number buttons 9.4.5.6. Number buttons 9.4.5.6. Number buttons 9.4.5.6. Number buttons 14	۵	Input mode selector	15	Menuope	ration	
Number buttons Number buttons Double-digit entering button Double-digit entering button Double-digit entering button Volume count of button Programme selection Programme	٨	Output mode selector	*		ı	
MENU Menu on/off button 14 0.4√2 Select buttons Direct channel entering button 15 0.4√2 Select buttons Volume control button 16 0.4√2 Select buttons 17 0.4√2 Select buttons 18 0.4√2 Select buttons 19 0.4√2 Select buttons 19 0.4√2 Select button 19 0.4√2 Select button 19 0.4√2 Select button 10 0.4√2 Select button 10 0.4√2 Select button 11 0.4√2 Select button 12 0.4√2 Select button 13 0.4√2 Select button 14 0.4√2 Select button 15 0.4√2 Select button 16 0.4√2 Select button 17 0.4√2 Select button 18 0.0 Puttons 19 0.0 Puttons 10 0.0 Puttons	93726	Number buttons	11	Symbol	Name	Refer to page
Deachie-digit entering button 14 Δ+√− Select buttons Direct channel entering button 11 OK OK(confirming)button Volume control button 14 ← Back button Programma selections 14 ← Back button Preture adjustment button 16 Wideo operation Name Preture adjustment button 16 MEM USE MEM/USE selector On-screen display button 15 MEM MEM indicator Time display button 16 VTR1/23 Video equipment selector MDP MDP MB Video equipment operation Restead buttons 16 MP VID MR O D D D MICONS Restant buttons 18 VR O D D D MICONS PROGREY	8.9.and 0		!	MENO	Menu on/off button	80
Direct channel entering button Volume control button Programme selectors Teletext page access buttons Picture adjustment button Picture adjustment period Picture adjustment	1	Double-digit entering button	*	D+10-	Select buttons	90
Volume control button 14 ← Back button Programma selectora 14 ✓ Video operation Teletext page access buttone 16 Symbol Name Sound adjustment button 16 MEM USE MEM/USE selector On-screen display button 15 MEM MEM indicator Time display button 16 NTR1/2/3, Video equipment selector Time display button 16 NTR1/2/3, Video equipment operation Fastext buttons 19 44 ► ► ► B Video equipment operation Rester buttons 19 He o Puttons Rester button Rester button		Direct channel entering button	=	ð	OK(econfirming)button	90
Programma selections Teletrat page access buttons Picture adjustment button Picture adjustment button Picture adjustment button 16 Symbol MEM INEMUSE MEMUSE selector On-screen display button 16 MEM MEM INEMUsicator Teletrat houtons 19 VTR1723, Video equipment selector NTR1723, Video equipment selector NTR1723, Video equipment operation 19 Me ∪ Pullons PPOGR +/- RESET Putton	1	Volume control button	7	+	Back button	æ
Teletext page access buttone 19 Video operation Picture adjustment button 16 Symbol Name Sound adjustment button 16 MEM USE MEM/USE selector On-screen display button 19 VTR1/23, Video equipment selector Time display button 19 VTR1/23, Video equipment selector Time display button 19 We o PPD MICHOR Fastext buttons 19 We o PHICHOR PPOGR +/- RESET RESET button	ROGR4	Programme selectors	*			
ant button 16 Synthol Name MEM.USE MEM.OSE selector MEM. MEM. MEM. indicator 19 VTR1/2/3, Video equipment selector 15 MEM. MEM. indicator 16 MEM. MEM. indicator 16 MEM. MEM. indicator 16 MEM. MEM. indicator 17 MEM. MEM. indicator 18 MEM. MEM. indicator 19 MEM. indicator 10 MEM. indicator 11 MEM. indicator 12 MEM. indicator 13 MEM. indicator 14 MEM. indicator 15 MEM. indicator 16 MEM. indicator 17 MEM. indicator 18 MEM. indicat	90	Teletext page access buffore	•	Video ope	ration	
MEM	_	Picture adjustment button	2	Symbol	Name	Refer to page
# MEM MEM indicator ### MEM MEM indicator ### MIDP ### MIDP ### MEM MEM MEM indicator ### MEM MEM MEM MEM MEM MEM MEM MEM MEM		Sound adjustment button	2	MEM USE	MEM/USE selector	56
19 VTR1/2/3, Video equipment selector 16 MIDP	•	On-screen display buttorn	51	MEM	MEM indicator	8
16		Teletext hold button	9	VIR1/2/3,	Video equipment selector	18
19	-	Time display button	91	MDP	-	1
++- RESET button	1	Fasterd buttons	91		Video equipment operation	103
RESET button				PROGR +/-		
				RESET	RESET button	8



Step 1 Preparation



When you've taken everything out of the carton, check that you have these items:





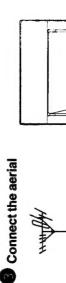






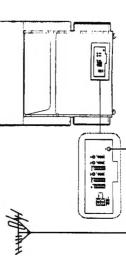
Refit the outside cover making sure that the Full-Function side is visible to use the menu in Step 2.





can see a sequential demonstration of the menu functions. Press MENU to stop the function.

you choose DEMO Note on the DEMO



Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the If socket at the rear of the TV.

Step 2 Adjusting Colour Registration (Convergence)

Once you have set up the TV, you can choose the language of the menu. Then you should converge the three colour layers (red, green, and blue).

Before you begin

- Check that the Full-Function side of the Remote Corrmander is visible. Locate Menu operation buttons on the Remote commander. They are shaded in the illustration at the left.

Choose a language

Depress 0 on the TV.
The TV will switch on. If the standby indicator on the TV is IR, press.
O or annuar button on the Remote Commander.
Press MENU.
The LANGUAGE menu appears. (See Fig. 1) MENU

P English Perloqués Deutsan Seass Français Seass Français Seass Français Seass Egathi Turça Medericada Seass (IN) and press OK

- Select the language you want with Δ + or ∇ and press OK.

8

2 Display the Menu

BONY

The main menu appears. (See Fig. 2)

Press the ← button.

Select PER and press OK

① S Converge the red, green, and blue

- Select "Convergence" with $\Delta + \text{or } \nabla \text{and press OK}$.
 - The convergence menu appears. (See Fig. 3) Select "the line" you want to adjust with $\Delta +$ or $\nabla -$. Key to line adjustment symbols:
 - (blue vertical left/right adjustment)
 - (blue horizontal up/down adjustm
- Press $\Delta+$ or $\nabla-$ to converge the selected line with the centre green line and press OK. The line to adjust is selected.

	Colours	*
Præss Δ+	- > 23 DEL	lines, until all the lines have

To move right (vertical line)	
To move down (horizontal line) To move left (vertical line)	Press V-

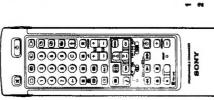
Repeat steps 2-4 to adjust the other lines, until a overlapped to form a white cross. (See Fig. 4.)

Press MENU to return to TV picture.



Remote Commander

Step 3 Tuning in to TV Stations



The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and warth to preset channels one by one. The manual reathod is also convenient for allocating programme numbers to various video input sources. You can preset the channels (up to 100 channels) by choosing either the automatic or manual method.





Preset channels automatically

- Press MENU to display the main menu
- Select "Preset" with △+ or ▽- and press OK.

Beleat Call and prese Off

- The PRESET menu appears. (See Fig. 5.)
- Select "Auto Programme" with △+ or ▽- and press OK. The AUTO PROGRAMME menu appears. (See Fig. 6.)

To go back to the mai

Ceep pressing ←.

Press OK, Select if necessary the TV broadcast system with △+ or ∇− and press OK, (BK) for westem European countries, DK for eastem European countries, I, for France and I for the United Kingsom). The first element of the "PROG" number will be displayed in red on a black background.

To stop automatic channel presetting Press — on the Remote

- Select the programme (number button) from which you want to start presenting. Select the first element of the double-digit number with $\triangle +$ or $\bigcirc -$ or the number buttons (e.g. For "17", select "1" and press OK.
- The second element of "PROG" will be displayed in red on a black background.

Bulact Call and prose DK

Select the second element of the double-digit number with $\triangle +$ or $\nabla -$ or the number buttons (e.g. For "17", select "7") and press OK (See Fig. 7.)

check which charmels are stored on which programme positions. For details, see "Using the Programme Table" on page 17.

automatically, you can

After presetting the

- Using \triangle + or ∇ -, select C (to start presetting from the normal channels) or S (to start presetting from the cable channels) and press OK.
- The automatic channel presetting starts.

When presetting is finished, the preset menu reappears. (See Fig. 8.) All available channels are now stored on successive number buttons.

to have them appear on screen in the order you like. For detaile, see "Sorting the Programme Positions" on page 11.

You can sort the programme positions

For customers in the U.K., channels are automatically stored as

Programme position 1 - BBC1.

Programme position 2 - BBC2. Programme position 3 - TV.

Programme position 4 - CH4 or S4C.

you want to change to another broadcasting system, repeat 3-8

Press MENU to return to TV picture.

ilyou want to preset channels one by one. You may also effocate programme numbers to various video imput. are only a few channels in your area to preset or

Belant NC and grees Of Auto Pragrammes Manual Programme Pressi Programme Secting Patential Lea

Fig. 10.)

Select "Manual Programme Preset" with \triangle + or ∇ - and prese OK. The MANUAL PROGRAMME PRESET menu appears. (See

Select "Preset" with \triangle + or ∇ - and press OK. The PRESET menu appears. (See Fig. 9.)

Press MENU to display the main menu.

Preset channels manually

To return to the main Coop pressing ←.

Press - to go back to the previous position.

I you haive made a nistake

Fig. 10

European countries, D/K for eastern European countries, L for France and I for the United Kingdom) or a video input source (EXT)

Select, if necessary, the TV broadcast system (B/G for western

Using \triangle + or ∇ —, select the programme position (number button) to which you want to preset a channel, and press OK.

Then press OK. The CH position will be displayed in red on a black

Using △+ or ▽-, select C (to preset a regular channell), S (to

background. (See Fig. 11.)

with \$1 or \$7-.

frequency
Aher selecting F in altep
6, enter three digits
using the number
buttons.

Beleet De and press Of 17 17

The first element of the "CH" number will be displayed in red on a with \triangle + or ∇ -. (See Fig.12.) There are two ways to preset channels. If you know th e channel number, go to step 7-Manual". preset a cable channel), or F (to tune in by frequency) and press I you have selected EXT in step 4, select the video input source If you don't know the channel number, go to step "8-Search"

The second element of the "CH" number will be displayed in red on Select the first element of the "CH" number with △+ ▽- or the

Select the second element of the number with $\triangle + \nabla + or$ the number buttons.

a black background.

The selected number appears. (See Fig. 13.) Press OK

The "SEARCH" position is highlighted and the selected channel is now stored.(See Fig. 14.) Press OK until the cursor appears by the next programme position Repeat steps 3 to 7 to preset other channels.

Press OK repeatedly until the colour of the SEARCH position

18 1 C35 14V

The CH poetion changes colour. (See Fig. 15.) The CH number starts counting up or downwards. Wh en a channel Start searching for the channel with $\triangle + (up)$ or $\nabla - (down)$. is found, it stops. (See Fig. 16.)

Press OK if you want to store this channel. If not, press $\triangle +$ or ∇ to continue channel searching. Press OK until the cursor appears by the next programme position.

Repend steps 3 to 7 to preset other channels.

Press MENU to return to TV picture.

Additional Presetting Functions

This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

- Before you begin
- Check that the Full Function side of the Remote Commander is visible.

Locate the Menu operation buttons.

Sorting Programme Positions

PROGRAMME SORTING

With this function, you can exchange the programme positions to a

- preferable order.
- Press MENU to display the main menu.
- Select "Programme Sorting" with \triangle + or ∇ and press OK. The PROGRAMME SORTING menu appears. (See Fig. 17.) The PRESET menu appears.

Select "Preset" with △+ or ▽- and press OK.

- Using riangle + or riangle , select the programme position you want to move to another and press OK.
 - Using riangle + or riangle -, select the programme position to which you want to move the channel of the programme position selected in step 4 and press CK. Now the two programme positions have been sorted. (See Fig. 19.) The colour of the selected position changes. (See Fig. 18.)
- Repeat steps 4 and 5 to sort other programme positions. Press MENU to return to TV picture.

Tuning in to a Channel **Temporarily**

BONY

Press Conthe Remote Commander. For cable channels, press C You can tune in to a channel temporarity, even when it has not been presel. Use the buttons on the Full-Function side of the Remote Commander.

For programme positions beyond 15 The display scrolls

The indication "C" ("S" for cable channels) appears on the screen. (See Fig. 20.)

The channel appears. However, the channel will not be stored.

Press + to go back to the previous position you have made a

To go back to main menu Keep pressing ←.

Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4).

MANUAL PROGRAMME PRESET

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR #/-buttons. However, the skipped programmes may still be called up when you use the number

- Press MENU to display the main menu.
- Select "Preset" with △+ or ▽- and press OK. The PRESET menu appears.
- Select 'Manual Programme Presel' with \triangle + or ∇ and press OK. The MANUAL PROGRAMME PRESET menu appears, (See
- Using $\triangle +$ or $\nabla -,$ select the programme position which you want to

[[[[[[[[]]]]]]]]

36653533388

Soleti CO und piete Or

70,23

- skip and press OK.
 The "SYS" position changes colour.
- Press △+ or ▽- until *---* appears in the SYSTEM position. (See When you select programmes using the PROGRH/- fouttons, the programme position will be skipped. Press OK. (See Fig.23.) Fig. 22.)

Press - to go back to To go back to main Coop pressing -

Move PRS to PR-

1398 SI3 84CI

Fig. 18

31111111 38881111

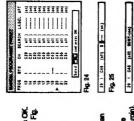
85111188

- Repeat steps 4 to 6 to skip other programme positions.
- Press MENU to return to TV picture.

Captioning a Station Name MANUAL PROGRAMME PRESET

Programme names are usually automatically taken from Telefeatt if available. You can also harme's channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBCI). Using this function, you can assity identify which channel or video source you are wetchling.

- Press MENU to display the main menu.
- Select "Preset" with $\triangle +$ or $\nabla -$ and press OK. The PRESET menu appears.
- Select 'Manual Programme Preset' with \triangle + or ∇ and press DK. The MANUAL PROGRAMME PRESET menu appears. (See Fig.
- Using Δ + or ∇ -, select the programms position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- Select other characters in the same way, if you want to leave an Select a letter or number with $\triangle +$ or $\nabla -$ and press OK. element blank, select -- and press OK. (See Fig. 25.) The next element will be highlighted.
- After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 26.)
- Repeat steps 5 and 6 to caption names for other channels.
 - Press MENU to return to TV picture.



Z

Operating Instruct

Watching the TV

Fig. 27 Select "Manual Program Preset" with $\Delta +$ or $\nabla -$ and press OK. The MANUAL PROGRAMME PRESET menu appears. (See

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Depress 0 on the TV. Switching on

000 0000 0000

0 0

Switching off temporarily

000 + T) **①**

0...

The TV enters standby mode and the standby indicator on the front Press © on the Remote Commande of the TV lights up.

To switch on again

Press C, PROGR 4/-, or one of the number buttons on the Remote Commander.

Switching off completely

Depress @ on the TV.

Selecting TV Programmes

Press 4-, then the numbers. For example, if you want to choose 23, press 4-, 2, and 3 Press PROGR +/- or press the number buttons. To select a double-digit number

Adjusting the Volume

If no picture appears when you withen you depress 0 on the TV and if the standary indicator on the TV is in standary mode.

Press 0 or one of the market building to award the training training the training trai

6140 ×

Press 44-

Operating the TV Using the Buttons on the TV

With the -/+ buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

number, 4 (for volume), or -- (for video input picture) appears. Press the [-4-5] button repeatedly until the programme Then adjust with the -/+ buttons.

Press the 44 buttons to switch on the TV from the standby mode. Press -44 struttaneously to reset picture and sound-controls to the factory preset level (RESET function).

Normally, the AFT (automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine

tuning function to obtain better picture reception.

Manual Fine-Tuning

MANUAL PROGRAMME PRESET

Select "Preset" with $\Delta + \text{ or } \nabla - \text{ and press OK}$.

The PRESET menu appears.

Fig. 27.)

Press MENU to display the main menu.

Using $\Delta + \sigma V \nabla_{-}$ select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour.

Fine-tune the channel with $\Delta+$ or $\nabla-$ so that you get the best TV reception. As you press the cursor buttons, the frequency changes

The cursor appears beside the next programme position (at the left margin). (See Fig. 29.) Now the fine-tuned level is stored. After fine tuning, press OK.

from-15 to + 15. (See Fig. 28.)

inning and select Fin step 5.

eat from the

Repeat steps 4 to 6 to fine-tune other channels.

Press MENU to return to TV picture.

Parental Lock

MENTAL LOCK

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable Press MENU to display the main menu.

Salect "Preset" with ∆+ or ∇ - and Press OK. The PRESET menu appears.

The PARENTAL LOCK menu appears. (See Fig. 30.) Select "Parental Lock" with $\Delta + \text{ or } \nabla - \text{ and press OK}$.

Using $\Delta + \text{ or } \nabla -$, select the programme position you want to block The CH and LABEL change colour and the TV picture **disappears** indicating that this programme is now blocked. (See Fig. 31.)

9084

Fp 30

PROG CH L486L P P-0 AV1 VH9 1 C24 88C2 2 C42 88C3 2 C42 86C3

Repeat step 4 to block other programme positions.

The message
"LOCKED" appears on
the blank TV screen.

If you try to select a programme that has been blocked

Press MENU to return to TV picture.

Cancelling blocking

On the PARENTAL LOCK menu, select the programme position you want to unblock with $\Delta +$ or $\nabla -$.

The CH and LABEL change colour to normal colour and the TV picture appears indicating that the blocking has been cancelled

2

2

Adjusting and Setting the TV Using the Menu

Adjusting the Picture and Sound

PICTURIE CONTROL SOUND CONTROL

For details of the telelest operation, refer to page 19.

For details of the video input picture, refer to page 24.



To make the Programme Table despiper Press MENU.

Watching Teletext or Video Input

Watching teletext

- For teletext operation, enter a 3-digit page number with the number buttons to select a page. Press (to view the teletext.
 - For fastaxt operation, press one of the coloured buttons, choch operations, press BP(AGE+) for the next page of BP(AGE-) for the preceding page.

 To go back to the normal TV picture, press O.
- Watching a video input picture
- Press E repeatedly until the desired video input appears
 - To go back to the normal TV picture, press ○.

More Convenient Functions

Use the Full-Function side of the Remote Commander.

- Displaying the on screen indications
- Press © twice to have the programme number and label stay on screen. Press twice again to make the indications disappear. Press @ once to display all the indications. They will disappear ofter a few seconds.
- Muting the sound
- Press 4.

To resume normal sound, press 4 again.

BONY

Press ©. This function is available only when teletaid is broadcast. To make the time display disappear, press © again. Displaying the time

Press OK. A Programme Table will be displayed on the right side of the TV screen (See. Fig. 32.) Displaying of the Programme Table

Belecting of TV programmes Press PROGN +- or select the desired programme position using $\Delta+$ or V -, and press OK.

NTSC colour systems and PESOLUTION does not work for SECAM

IUE is only available for

Fig. 22

The audio level and the duel sound mode output from the O-jack on the

Sote on LINE OUT

Headphone VOLUME

Story, you	Ī	P Contrast Brightness	adjust and		Select Dill and press OK	-	POLINE CONTRACT	Been Beinne	of press OK. Louise (a) Source (a) Due Bound (b)	_		
Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste in addition you can set the	resolution to obtain a higher quality picture. You can also select	dual sound (bilingual) programmes when available or exjust the	sound for listening with the headphones, or individually adjust and store the volume level of each channel (volume offset).	Press (for picture) or \hbar (for sound) on the remote Commander.	ă	Press MENU and select "Picture Control" or "Sound Control", then	press OK. The PICTURE CONTROL or SOUND CONTROL meral accesses.	(See Fig. 33 or Fig. 34.)	Using $\Delta +$ or $\nabla -$, select the item you want to adjust and press OK . The selected item changes colour. (See Fig. 35.)	Adjust the setting with $\Delta + \text{or } \nabla - \text{and press OK}$.	The cursor appears beside the next item (at the left margin). (See Fig. 36.)	Charles after a filter of a contract of a co

- Using $\Delta +$ or $\nabla -$, select the item you want. The selected item changes colour, (See F. Adjust the setting with $\Delta + \text{or } \nabla - \text{and pres}$ The cursor appears beside the next item (
 - Fig. 36.) For the effect of each control, see the table Repeat steps 2 and 3 to adjust other items.
- Press MENU to return to TV picture.

MON

S.	Brightness	Fig. 36	Brightness ▼ Colour	

outro	
cho	
of ea	
fect	
Щ	

EILECT	Less — More	Darker — Brighter	Less —— More	Greenish ———— Reddish	Softer - Sharper	Resets picture to the factory preset levels.	(normal) (high) Obtain a higher picture quality	
ביייים ביייים ביייים	Contrast	Brightness	Colour	Hue	Sharpness	Reset	Resolution	

To go back to the make

dep pressing ←.

Press 44 to go back to the previous position.

Effect	Less -+- More	Less — More	More left —— More right	Resets sound to the factory preset levels.	off: Normal on: When listening to low volume sound.	off: Normal on: Obtain acoustic sound offect.	A: left channel El right channel Stereo mono	The selected mode of the A-O-B Indicator on the TV lights up	(For NICAM broadcasts, see next page)	(-7) Less 0 (+7) More		Less -+- More	At left channel B: right channel . Stereo mono
SOUND CONTROL	Treble	Bass	Balance	Reset	Loudness	Spece	Dual Sound			Volume offset	Headphones:	O Volume	n Dual Sound

When witching a video input picture. You can select DUAL. SOUND to change the

Selecting Nicam Broadcasts*

This Sony TV has been designed to select stenso Nicam broadcasts when variable. Whenever a Nicam broadcast is received, "NICAM" appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A-CD-8 indicators, on the TV will switch off.

Nican programmes can be broadcast in two ways. You may select the sound you want to hear in either of these by first following the instructions explained on page 16.

-				
Service Being Broadcast	Action	드	Indication of the TV	
		Stereo Nicam	Mono	
Stereo	Press Δ+ or ∇−	* <-6	o ∢ -8	
		* -0	0	
Press ∆+or ∇-ag	Press $\Delta + or \ \nabla - $ again to return to sisted	Vicem (Mc	no 2-Channel)	
		Channel A Nicam	Channel B Nicam	Mono
Bilingue	Press	₩	o ∢- €	o « -{
	Δ+ οι Δ-	O 3-a	*	O 9- e

Press △+ or ▽- again to return to channel A Nicam

*Depending on availability of service.

Using the Programme Table

programme position. You can also select programmes using this On this table, you can see which channel is preset to which

Press MENU to display the main menu.

Select "Programme Table" with $\Delta +$ or $\nabla -$ and press OK. The PROGRAMME TABLE menu appears. (See Fig. 37.)

Select the programme number with $\Delta +$ or $\nabla -$ and press OK. The selected programme appears.

To scroll to higher programme numbers, press∇~.

Press MENU to return to TV picture.

The Seed Till and pres OK

Fig. 88

Fig. 37

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

Press MENU to display the main menu.

Select "Timer" with △+ or ▽− and press OK. The TIMER menu appears. (See Fig. 38.)

Press OK.

Select the time period with $\Delta +$ or $\nabla -$. The time period (in minutes) changes as follows: The time period option changes colour.

To switch off the titeer Select "OFF" in step 3.

To check the remaining time Press ©.

After selecting the time period, press OK.

 $10 \rightarrow 20 \rightarrow 30 \rightarrow 40 \rightarrow 50 \rightarrow 60 \rightarrow 70 \rightarrow 80 \rightarrow 90$

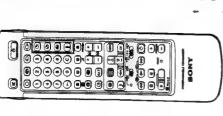
One minute before the TV switches into standby mode, a message The cursor moves back to the left margin and the timer starts is displayed on the screen.

Press MENU to return to TV picture.

PIP (Picture In Picture)

With this function you can display a TPIP acreen" (armal picture) within the main IV plature, in this way you can weath or monitor the video output from any connected equipment (for example from a VTRI) while watching TV or vice versa. For information about

connection of other equipment, refer to page 23.



Switching PIP on and off

- Main TV picture

did i

Press - © repeatedly until the desired PIP source is indicated (e.g. TV, AV1, AV2, YC2, AV3, YC3, AV4, YC4). Press (C).
The PIP acreen will be displayed. The PIP picture will come from the source chosen when the TV was last used. The symbol it will be displayed at the bottom, left-hand comer of Selecting a PIP source To Switch PIP off Press @ again. the screen. Press t.

Note RGB input source central be displayed in PIP,

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85888888

if no video source has been connected, the PIP plature will be



Press (2). The main screen will switch the picture with the PIP acreen.

Swapping screens

⋖

If a TV programme is on the PIP screen and a video source on the main picture, and you want to change channels, first press it and then the programme number buttons or PIROGIR 4/-.
 Swapping screens takes about 2 seconds after pressing (2).
 After swapping screens if the colour systems of the main and PIP pictures are different, the PIP picture first appears in black

and white and then in colour.

Changing the position of the PIP

Press @ repeatedly to change the position of the PIIP screen with in the main screen. There are four different positions available.

Displaying of PIP within Teletext

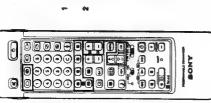
The PIP screen will be displayed on the right side of the TV screen, the reduced teletext page will be displayed on the left side.

Press @ sgain to make the PIP screen disappear. Press (while teletext is switched on.

2

12

Teletext



— 13 —

Teletaxt errors may occur if the broadcasting signals are weak.

With the simple side of

You can switch isletext on and off, operate Fastext, and directly select page numbers.

Note Fastart operation is orely possible, if the TV station broadcasts Fastart aignals.

information pages such as weather reports or news at eny time you want. For advanced teletaxt operation, use the buttons on the Full-Function side of the Remote Commander. TV stations broadcast an information service called Teletant via the TV channels. Teletext service allows you to receive various

Direct Access Functions

Switching Teletext on and off

Select the TV channel which carries the teletext broadcast you want to watch.

Press (to switch on teletext.

A feletext page will be displayed (usually the index page). If there is no teletext broadcast, "No text evallable" is daplayed on the information line at the top of the screen.

To awitch teletext off

Press O.

Selecting a teletext page With direct page selection

Use the number buttons to input the three digits of the chosen

page number. If you have made a mistake, type in any three dighs. Then re-enter the correct page number.

With page-catching

Select a teletext page with a page overview (e.g. index page).

Press CK. Tage catching will be displayed on the information line. Using Δ + or ∇ -, select the desired page and press CK. The required page number flashes. The requested page will appear in a few seconds.

Press @ to resume normal teletext operation.

Accessing next or preceding/page

The next or preceding page appears. Press @ (PAGE+) or @ (PAGE-).

Superimposing the teletext display on the TV

Press @ once in teletext mode or twice in TV mode programme

Press @ again to resume normal teletext reception.

Preventing a teletext page from being updated

Press 69 (HOLD). The HOLD symbol "69" is displayed on the information line.

Using Fastext

Press @ to resume normal teletext reception.

When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the With Fastext you can access pages with one key stroke.

Press the corresponding coloured button on the Remote Corrrrander which corresponds to the colour-coded menu. The page will be displayed after a few seconds. Remote Commander

Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the

Press MENU. The menu will be superimposed on the teletaxt display. (See Fig. 39.)

Using $\Delta + m \nabla -$, select the teletaxt function you want and press OK. (See Fig. 40.)

See page 22 for information about presetting and operating the user pages. USER PAGES/PRESET USER PAGES

Mereni Time Page Propri Cear Pages Second TAC and pear OX

MDEX

The index will give you an overview of the contents of the telestent and the page numbers.

Aft or having selected the function two succeeding teletext pages will be displayed next to each other on the TV screen. **DUAL PAGE MODE**

Revosi Time Page Bulbage Pressi Uner Pages Street DV nes poes OK

Page Catching Press CK. Page Catching is now active on the left teletext page (See also page 19). Accessing next or preceding page Press PROGR 4/-.

While you select a page number of the left page using $\Delta+$ or $\nabla-$, the corresponding teletaxt page will be displayed on the right side of the TV screen. f you press OK again the right teletext page will appear on the left.

To cancel the function:

Note Some of the features may not be available depending on the Teletaxt service.

TOP/BOTTOM/FULL

For convenient reading of a teletist page, you can enlarge the leaderst display with the ability is scroll up and down the screen. After having selected the function, an information line Top/Boston/Full will be displayed. (See Fig. 41.)

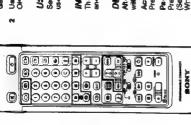
Press $\Delta + lor$ Top to enlarge the upper half. For Bott orn keep pre-sering ∇_+ to enlarge the lower half. Press OK for Full to resume the normal size.

Press (18) to resume normal teletext reception.

After selecting the function, you can watch a TV programme while weating for a telefext page to be captured (the symbol changes colour). (See Fig. 42.)

Press (E) to view the requested page

Your teletext service will inform you if a TV programme in subdished. When having selected the function the subdites will be displayed.





NTop V Bottom CK Full Fig. 41





Sometimes Pages contain concasted information, such as answers to a quir. The reveal option less you disclose the answers control information. After selecting the function, an information into Reveal orvior will be displayed. (See Fig. 43.) Using $\Delta+$ or $\nabla-$, select ON to reveal the information or OFF to conceal it again.

Press (2) to resume normal teletext reception

TIME PAGE

Press OK to select "OFF" for the TIME PAGE setting to central

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g. an alarm page) displayed st a certain time.

Press OK. An information window will be displayed at the bottom of the page. Using $\Delta+$ or $\nabla-$, select "ON" and press OK.

Time Page is not evaleble in the U.K.

To select the desired page, enter three digits for the page number (e.g. 452) using the number buttons.

To select the desired time, enter four digits for the desired time (e.g., 1800) using the number buttons and press MENM.
The selected time is displayed at the top in the feth-hand comer. At the requested time, the page will be desplayed.
Use the number buttons to select a new page.

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR 4/4 or the number buttons (e.g. enter 0002 for the second page of a sequence).

You can present one bank to 2 different programme positions. f lavo broadcastling tations use the sam

Reves Con Cot

There are 5 "banks" (A to E) for 5 reletext stations, in each bank you can store 6 preferred pages (P1 to P6).

Storing pages

Press @ (if Teletext is not already on) and MENU to show the

TELETEXT MENU display.

Select the desired bank with $\Delta + \varpi \, \nabla -$ and press OK. The cursor will go to the first position (p.1) of the preferred pages.

Select "Preset User Pages" with $\Delta +$ or $\nabla -$ and prese OK.

Input the three digits of your first preferred page with the number

The cursor will go to the second position.

You can store up to 30 pages in the "teletext page benk system"

User Page Bank System

in this way you have quick access to the pages you weach

Repeat step 4 for the other 5 page numbers you want to preset, if you do not want to preset all 6 page numbers available, press OK

Select the programme position on which you want to store the preset pages with $\Delta +$ or $\nabla -$ and press OK. (See Fig. 44)

Select "Allocate Bank" with $\Delta +$ or $\nabla -$ and press OK .

without inserting any number.

Repeat steps 3 to 8 for the other 4 banks available.

and press OK.

Displaying User Pages.

Select MENU.

A table of the stored preferred pages will be displayed. (See

Fig. 45.)

Select "User Pages" with △+ or ▽ and press OK

So lect the desired page with $\Delta +$ or ∇ and press OK. The page will be displayed after some seconds.

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P 2 to the green one, IP 3 to the

To select the desired page press the respective coloured button

yellow one and P4 to the blue button.

while you are in TV mode. Now the Page number of this teleted page will appear in white at the top in the left-handed comer of the TV screen. When the page number changes colour the page is available. Press the coloured button again to display the page.

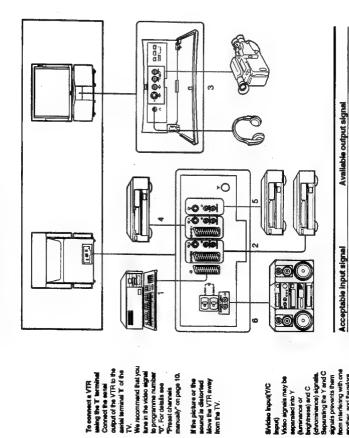
7

To cancel the request Select SUBPAGE and press OK.

Connecting and Operating Optional Equipment

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV auch as a VTR, video disc player, and stereo system.



programme positions so that you can select them with PROGEL 4—or number buttons. For details, see "Pivest chernels manually" on Mocfing input with MOGR 4/- or numb ou can preset video eth of securos high Dege 10.

The symbol of the selected input source will appear. (See Fig. 46.)

To go back to the normal TV picture

Press ().

Press - repeatedly to select the input source.

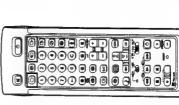
Sefecting input

Ģ

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output sign at using direct access buttons or the menu system.

Selecting input and output

Input modes φ φ Ģ



Audio/S video input through the - 🙉 3 (4-pin connector) and - 🖒 3 connectors

Audio/video input through - 3 aund - 3 on the front Audio/video input through the ⊕ 4/ -® 4 connector Audio/S video input through the +4/-6 4 or -6 4 connector(4-pin

connector)

Audio/S video input through the @+2/-@ 2 or -@ 2 connector (4-pin

9 e Q ၈ မှ Ģ

AudioVideo input through the ⊕+ 2/ -® 2 connector

Audio/RGB input through the - 3 1 connector Audio/video input through the - 1 connector

You can also select the input mode using the P - $P \to P \to P$ and J + buttons on the TV. In this case, first select - $P \to P \to P \to P$ butto ns to select the input.

The (3-2/-(6) 2 connector outputs the source input from the Press @- repeatedly to select the output. Selecting the output other connectors.

PONT

φ The symbol of the selected output source appears. (See Fig. 47.)

Output modes

Symmon (3-72 - 6) 2 connector outputs	Audio/video signal from the 1 connector	Audio/video signal from the ⊕-2/ -@ connector	Audio/S video signal from the G-2/-6 2 or -6 2 connector (4 pin)	AudioArideo signal from the - 3, - 3 connectors	Audio/S video signal from the -® 3, - 3 connectors	Audio/video signal from the ⊕ 4/ ⊕ 4 connector	Audio/S video signal from the ③- 4/ - ⑥ 4 or - ⑥ 4 connector (4 pin)	Audio/video signal from the T aerial terminal
	ector	connector	2 or -@ 2 connector (4 pin)	connectors	3 connectors	t connector	4 or -@ 4 connector (4 pin)	inal

When connecting a monaural VTR Connect only the white (-) jack to both the TV and VTR. nput directly.

Normal audio/video and S video signal Normal audio/video and S video signal Normal audio/video and S video signal Normal audio/video and RGB signal No inputs No imputs (chromination) signals, Separating the V and C Separating V and V

Video/audio displayed on TV screen (monitor out)

Video/audio from selected sound

No outputs

Video/audio from TV tuner

hitness) and C

Svideo/audio signal displayed on TV screen

Audio signal (variable)

(monitor out)

Troubleshooting

Here are some simple solutions to some problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	• Plug in the TV in • Press & Ont a PV (if O indicator is on, press O or a programme number on • Press & Onthe TV (if O indicator is on, press O or a programme number on • Check the serial connection. • Check the serial video source is on. • Chart if the serial video source is on. • I'um the TV off for three or flour seconds and then turn it on again using O.
Poor or no picture (screen is dark), but sound is OK	Poor or no picture (screen is dark), but sound is OK • Press III to enter the PICTURE CONTROL menuand acjust the BRIGHT. NESS, CONTRAST and COLOUR.
Pour picture quality when watching a RGB video source	• Press - En repeatedly to select - E.
Good picture but no sound	• Press Δ +. • If at is displayed on the screen, press at .
No colour for colour programmes	 Press to enter the PICTURE CONTROL menu, select RESET, then press OK.
Remote Commander does not function	• The batteries are weak. • Set the MEM/USE selector to the USE position.

if you continue to have problems, have your TV serviced by qualified personnel. Newer open the casing yourself

Checking and selecting the input and output sources using the menu

You can display the menu to see which imput sources are sels. for the TV screen and PIP screen, and which output source is selected. You can also select them on the menu display.

- Press MENU to display the main menu.
- Select "Video Connection" with $\Delta +$ or $\nabla -$ and press OK. The VIDEO CONNECTION mean agener, (See Fig. 48.). You can see which source is selected for the TV and PIP input and for the output. If you want to select the fiput and output on this menu, go to the next step.

So tect | 1 and press OK

TV 1 PLUS AVI WHS 1

Fig. 48

: [

- Select TV-screen (input source for the TV screen), PIP (input source for the PIP screen), m Output (output source) with Δ + or ∇ – and press OK.
 - One of the source items changes colour. (See Fig. 49.)

AV2 VHS 28 YC2 CAU 23 AV3 BETA YC3 VHB 38

Fig. 50

- The selected source is confirmed, and the cursor appears. (See Select the desired source with $\Delta+$ or $\nabla-$. (See Fig. 50.) For details about each source, see the table on page 24. Press OK.
- Repeat steps 2 to 4 to select the source for other inputs or outputs. Press MENU to return to TV picture. Fig. 51.)

AVI IV

TV BBC 0
AV1 VHB 0
A08 COMPU
AV2 CAM 2
AV3 BETA
VC3 VHB 8
AV4 CAM 1

Bolmot A V and prose Of

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most of Sony remote-controlled video equipment such as: Beta, 8 mm and VHS VI Rs and video diec players.

Set the VTR 1/2/3 MDP selector according to the equipment you Tuning the Remote Commender to the equipment

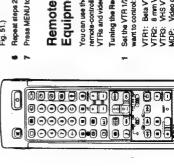
VTR1: Beta VTR VTR2: 8 mm VTR VTR3: VHS VTR MDP: Video disc player

if your video equipment is furnished with a COMMAND MODE Use the buttons indicated in the litustration to operate the

BONY

If the equipment does not have a certain function, the corresponding button on the Remote Cornmander will not operate. MDP selector on the TV Remote Commander.

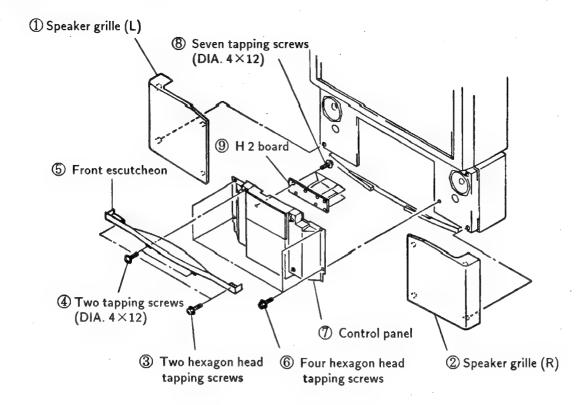
selector, set this selector to the same position as the VTR 1/2/3



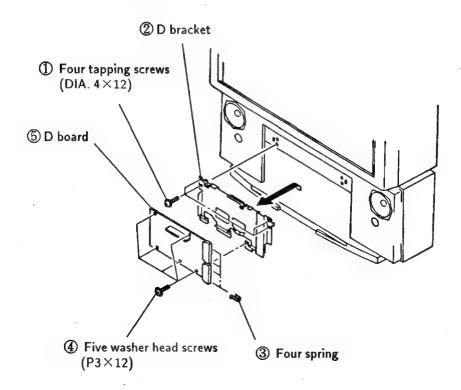
When recording when you use the 6 (record) button, make sure to press this button and the one to the right of it simultaneously.

SECTION 2 DISASSEMBLY

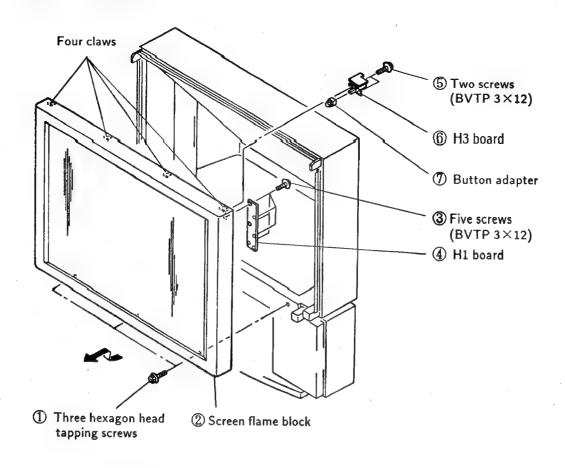
2-1. H 2 BOARD REMOVAL



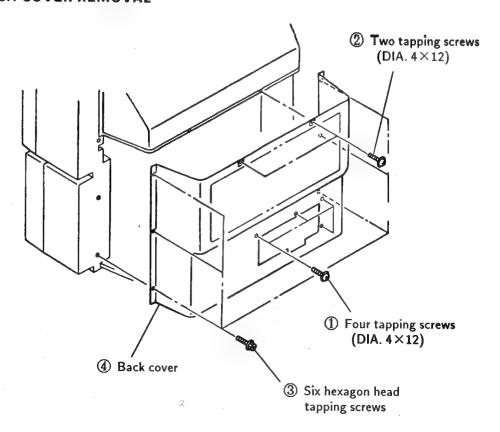
2-2. D BOARD REMOVAL



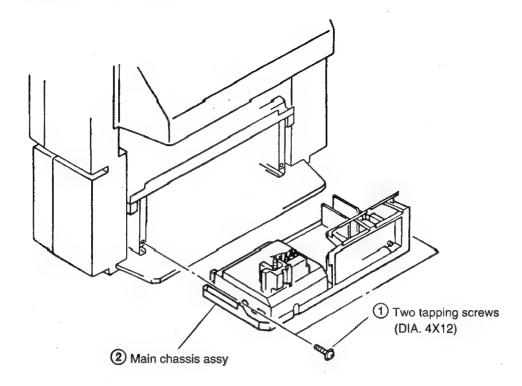
2-3. H1 AND H3 BOARDS REMOVAL



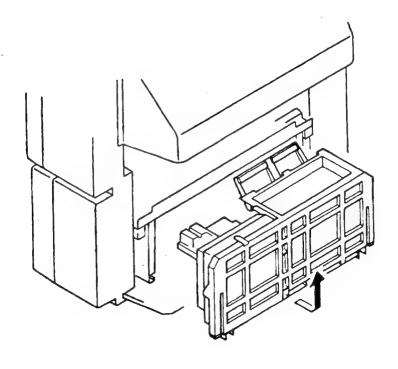
2-4. BACK COVER REMOVAL



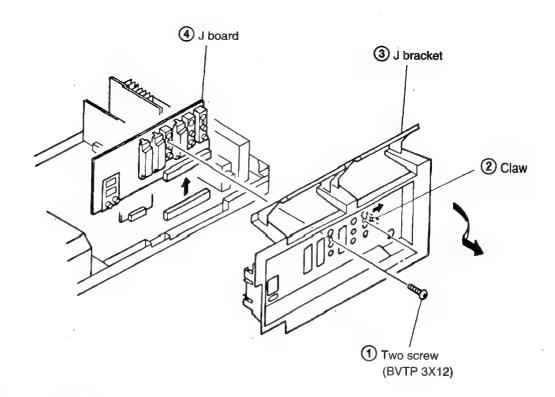
2-5. MAIN CHASSIS ASSY REMOVAL



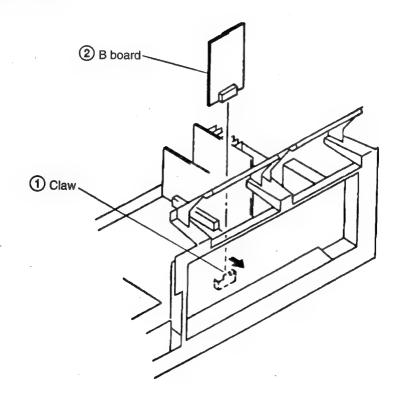
2-6. SERVICE POSITION

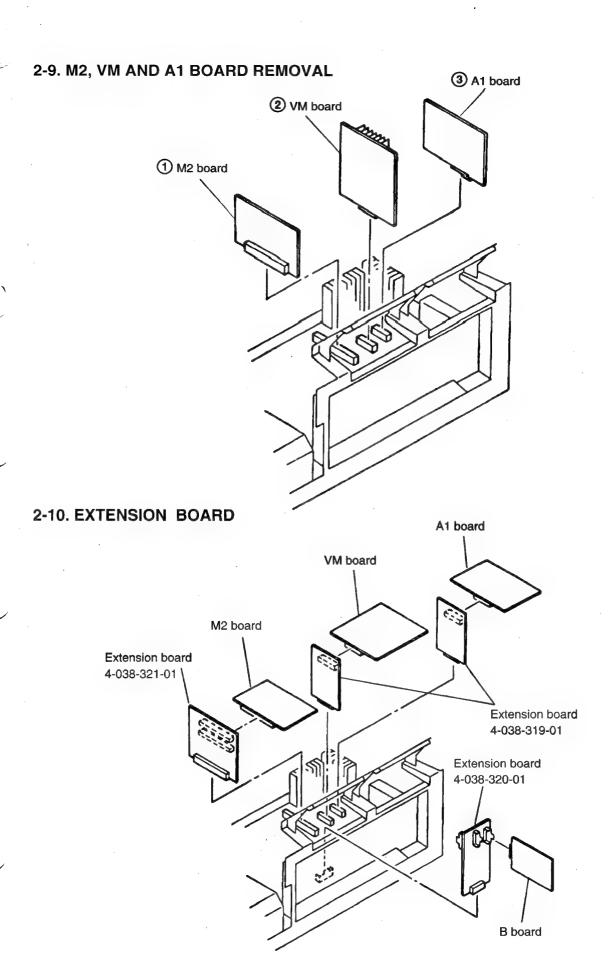


2-7. J BRACKET AND J BOARD REMOVAL

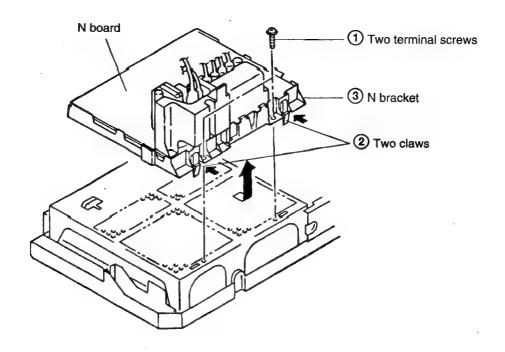


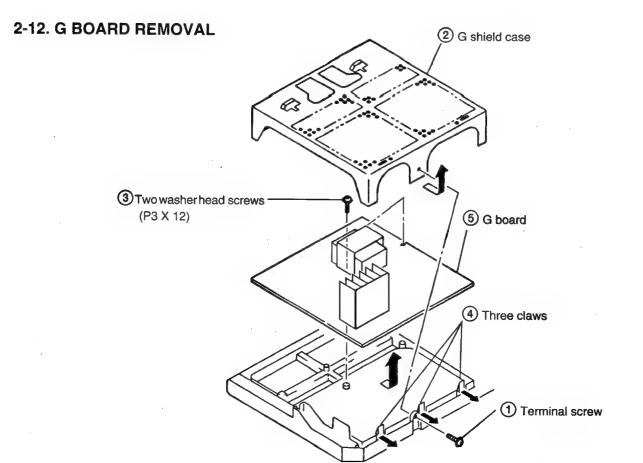
2-8. B BOARD REMOVAL



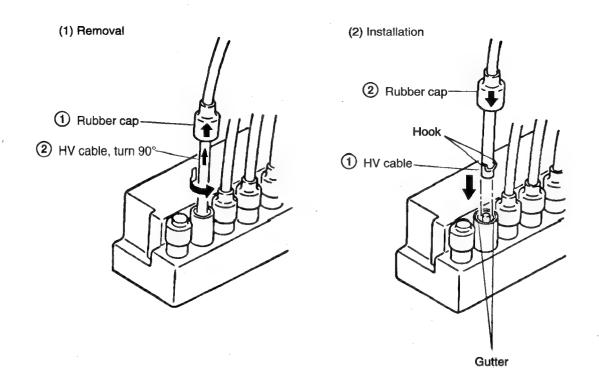


2-11. N BRACKET REMOVAL

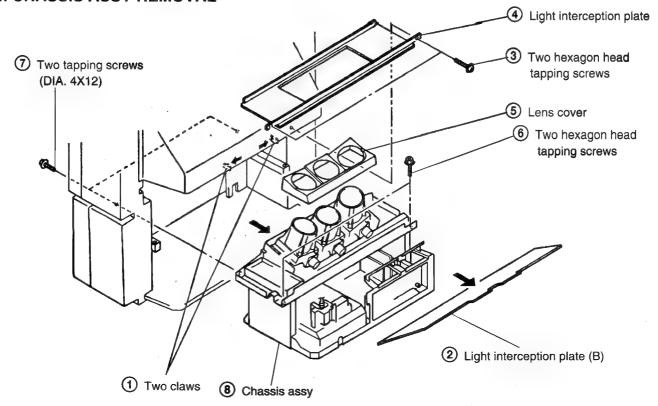


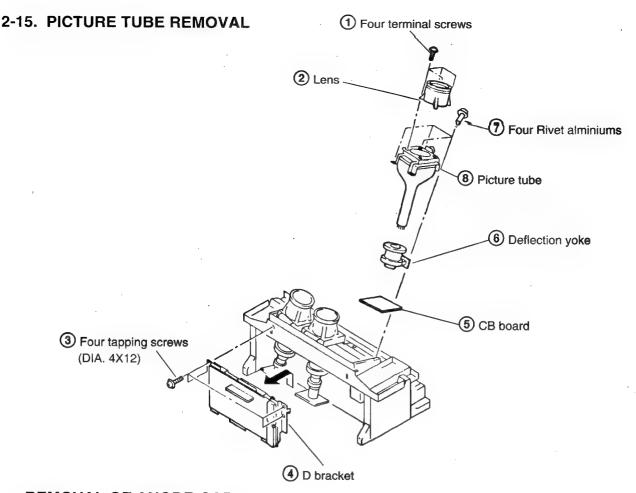


2-13. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL



2-14. CHASSIS ASSY REMOVAL

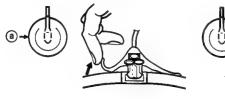




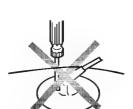
REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

• REMOVING PROCEDURES



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ②.
- 0
 - ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow **ⓑ**.
- ab pull up the rubber cap direction indicated by the
- arrow **(b)**. **HOW TO HANDLE AN ANODE-CAP**
- ① Don't damage the surface of the anode-cap with sharp shaped material!
- ② Don't press the rubber hardly hardly not to hurt inside of anode-caps!
 - A material fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.



(3) When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

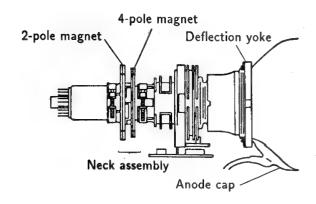
Anode button



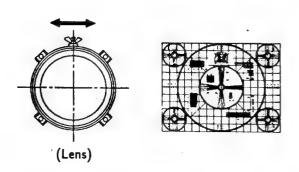
SECTION 3 SET-UP ADJUSTMENTS

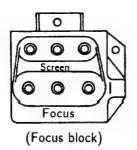
3-1. FOCUS LENS ADJUSTMENTS

- Set the D-board registration variable resistor (VR) and the position VR (CENTER VR) to mechanical.
- Set the centering magnets (for red, green, and blue) to 0 as shown in the figure.

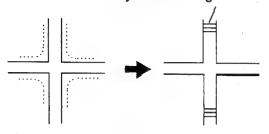


- 3. Input monoscope signal. Set 50% BRIGHTNESS and minimum PICTURE. Make rough adjustment so that 10IRE of the monoscope signal becomes faintly luminous.
- Set PICTURE and BRIGHTNESS maximum.
 Press the commander menu button. Select
 CONVERGENCE to display test signal.
- Enter service mode. Select R OFF of SERVICE
 MODE to cut off red output.
 Similarly, select B OFF to cut off blue output.
- 6. Turn the green lens to eliminate flare of the test signal.

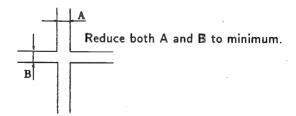




Verify that scanning lines are seen.



7. Turn the green focus VR in the focus block to adjust green focus to reduce both A and B of the test signal to minimum.



8. Repeat avobe 7. Couple of times to improve tracking and obtain an optimum lens focus. Then tighten the lens screws.

3-2. DEFLECTION YOKE POSITION ADJUSTMENTS

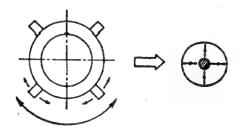
- 1. Input monoscope signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
 Similarly, select B OFF to cut off blue output.
- 3. Loosen the deflection yoke (DY) fitting screws. Tilt the DY to obtain the best horizontal and vertical monoscope patterns.
- 4. After adjustment, press the DY onto the cathode ray tube (CRT) funnel and tighten the screws.
- 5. Also adjust DY positions for red and blue outputs in the same way.

3-3. 2-POLE MAGNET ADJUSTMENT

- 1. Input dot signal.
- 2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.

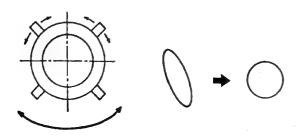
Similarly, select B OFF to cut off blue output.

- 3. Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block counterclockwise to brighten the point in the dot.
- 4. Adjust the 2-pole magnet to position the bright point at the center of the dot.
- 5. Adjust the red and blue dots in the same way.



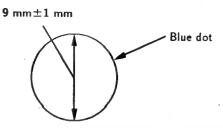
3-4. 4-POLE MAGNET ADJUSTMENT

- 1. Input dot signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
 Similarly, select B OFF to cut off blue output.
- 3. Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block clockwise until the dot diameter becomes 15 mm to 20 mm.
- 4. Adjust the 2-pole magnet to make the dot perfectly round.
- 5. Adjust the red and blue dot in the same way.



3-5. DE-FOCUS ADJUSTMENT (BLUE)

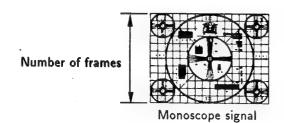
- 1. Input dot signal.
- 2. Turn the blue focus variable resistor (VR) in the focus block counter clock wise so that the diameter of the blue dot becomes 9±1mm.

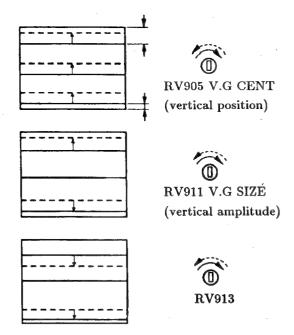


3-6. GREEN PICTURE ADJUSTMENTS

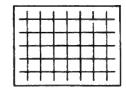
- 1. Input monoscope signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
 Similarly, select B OFF to cut off blue output.
- 3. Turn RV913 and RV960, the vertical green linearity variable resistors (V.G LIN VRs) on the D-board, to obtain an optimum vertical linearity. Then turn RV911, the vertical green amplitube variable resistor (V.G SIZE VR) to set vertical amplitude to 11.7 flames.

Note: The vertical position indicator of the monoscope signal must be positioned at the center by adjusting RV905, the vertical green center position variable resistor (V.G CENT VR) in advance.





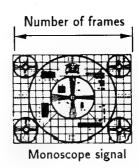
4. Verify that the horizontal lines on the top and bottom of cross-hatched area of the monoscope signal are horizontal and linear.

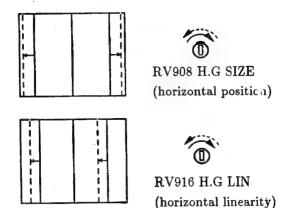


 Turn RV916, RV964 and RV969, the horizontal green linearity variable resistors (H.G LIN VRs) on the D-board, to obtain an optimum horizontal linearity.

Then turn RV908, the horizontal green amplitude variable resistor (H.G SIZE VR) to set horizontal amplitude to 15.6 frames.

Note: The horizontal position indicator of the monoscope signal must be positioned at the center by adjusting RV902, the horizontal green center position variable resistor (V.G CENT VR) in advance.



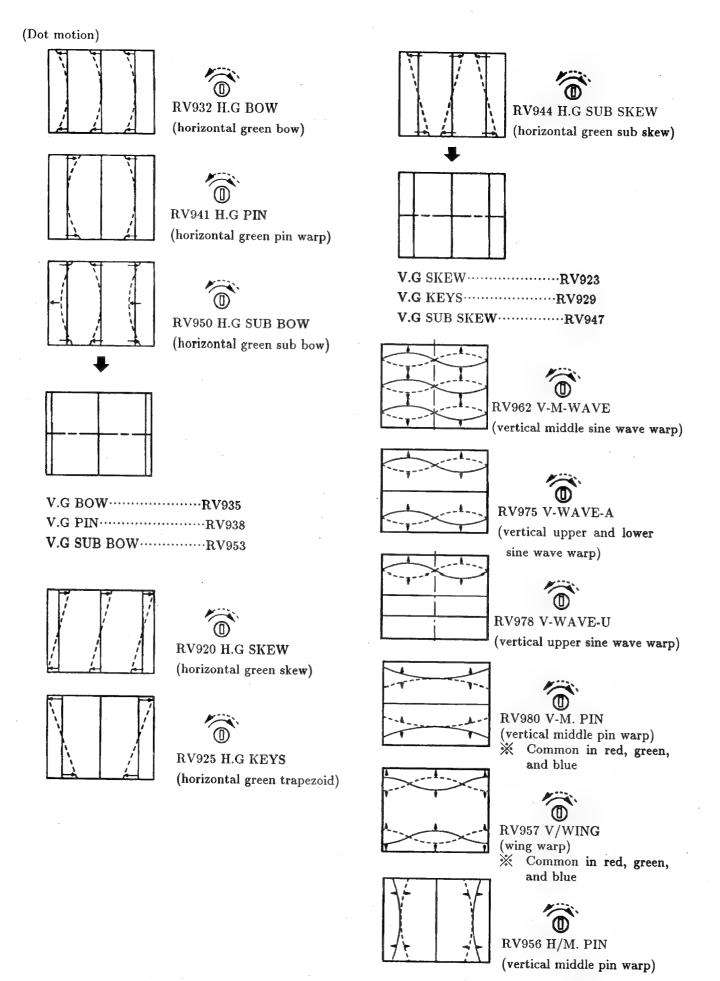


6. Input cross hatch signal.

Turn vertical green (V.G) and horizontal green
(H.G) variable resistors (VRs) and make
adjustments according to the following steps:

(Adjustment procedure)

- 1. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- 2. [PIN (pin warp)] \rightarrow [SUB BOW] \rightarrow [BOW]
- 3. $[KEYS (trapezoid)] \rightarrow [SUB SKEW] \rightarrow [SKEW]$
- 4. [M.WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)]
 ※ For vertical (V) only.
- [V-M.PIN (vertical middle pin warp)] →
 [V/WING (vertical wing warp)]
 ※ For vertical (V) only.
- 6. [H-M.PIN (horizontal middle pin warp)]※ For horizontal (H) only.

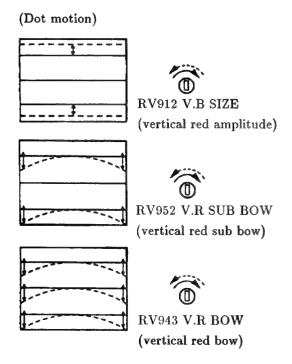


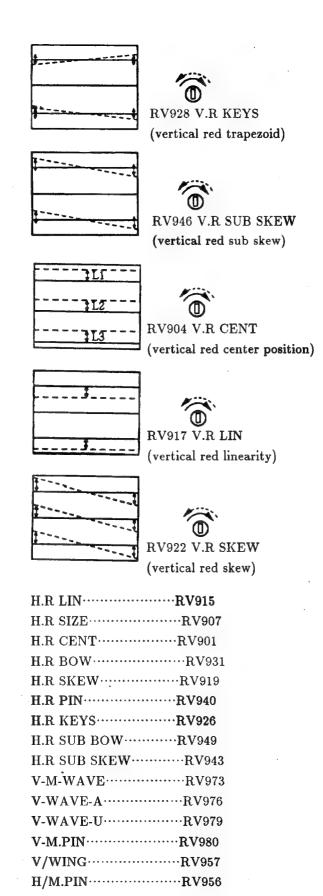
3-7. GREEN AND RED REGISTRATION ADJUSTMENTS

- 1. Input cross hatch signal.
- 2. Enter service mode. Select B OFF of SERVICE MODE to cut off blue output.
- 3. Turn the vertical red (V.R) and horizontal red (H. R) variable resistors (VRs) to adjust red picture convergence in relation to green picture according to the following steps:

(Adjustment procedure)

- [LIN (linearity)] → [SIZE (amplitude)] →
 [CENT (center position)] →
- 2. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- [PIN (pin warp)] → [SUB BOW] → [BOW]
 [H/M. PIN (horizontal middle pin warp)]
- 4. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
- [M.WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)]



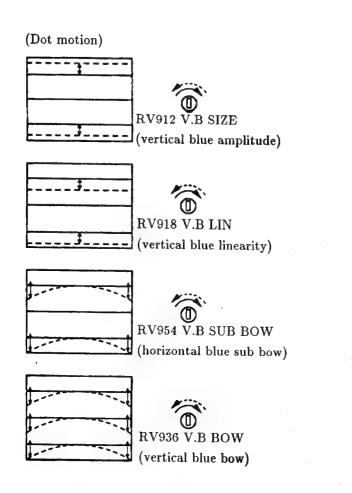


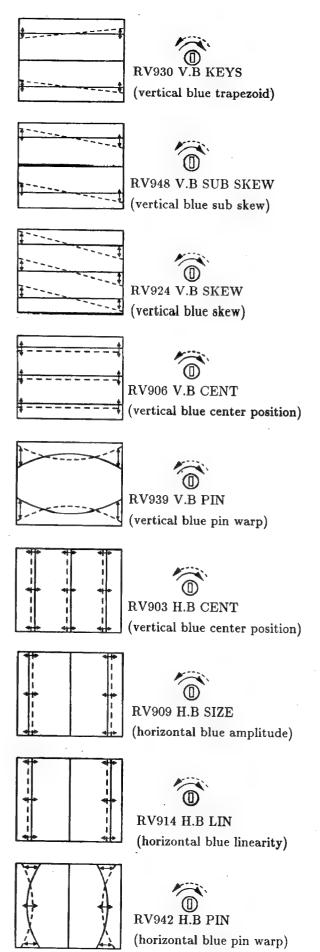
3-8. GREEN AND BLUE REGISTRATION ADJUSTMENTS

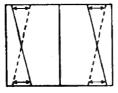
- 1. Input cross hatch signal.
- 2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
- 3. Turn the vertical blue (V.B) and horizontal blue (H.B) variable resistors (VRs) to adjust blue picture convergence in relation to green picture according to the following steps:

(Adjustment procedure)

- [LIN (linearity)] → [SIZE (amplitude)] →
 [CENT (center position)] →
- 2. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- [PIN (pin warp)] → [SUB BOW] → [BOW]
 [H/M. PIN (horizontal middle pin warp)]
- 4. [KEYS (trapezoid)] \rightarrow [SUB SKEW] \rightarrow [SKEW]
- [M.WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)] →

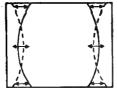






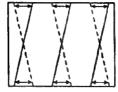


RV954 H.B SUB SKEW (horizontal blue sub skew)

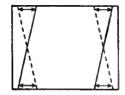




RV951 H.B SUB BLOW (horizontal blue sub bow)

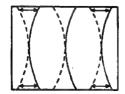






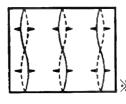


RV927 H.B KEYS (horizontal blue trapezoid)



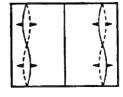


RV933 H.B BOW (horizontal blue bow)





RV981 ≪ Common in **red,** green, and blue





% Common in red, green, and blue

 H/M PIN
 RV958

 M.WAVE
 RV961

 WAVE-A
 RV974

 WAVE-U
 RV977

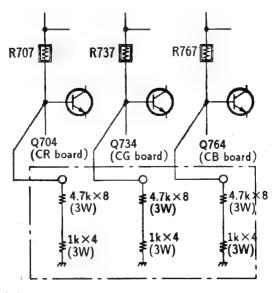
3-9. REGISTRATION ADJUSTMENTS

- 1. Out put red, blue, and green.
- Out put cross hatch and monoscope signals to check registration. Also check focus.

3-10. WHITE BALANCE ADJUSTMENTS

1) Screen adjustment

- 1. Input white signal.
- 2. Remove connectors CR-15, CG-16, and CB-17.
- 3. Fit jigs between the ground and R707, R737, and R767.



* Resistors in each jig are connected serial.

- 4. Turn the RGB (red, green, and blue) screed variable resistors in the focus block to make the flyback line faint. Stop before the line complete disappears.
- 5. Insert connectors CR-15, CG-16, and CB-17.

- 2) White balance adjustments (09, 14, 15, 16, 17)
- 1. Input monoscope signal and enter service mode.
- 2. Select the picture quality adjustment from the menu and set PICTURE minimum. Select the CXA1587S service item.
- Use the commander to adjust 09 (SUB BRIGHT) so that 10IRE of the monoscope pattern becomes faintly luminous.
- 4. Input white signal.
- 5. Set PICTURE minimum. Adjust item 16 (green cut off) and 17 (blue cut off) to obtain an optimum white balance.
- 6. Set PICTURE maximum. Adjust 14 (green-drive) and 15 (bluedrive) to obtain an optimum white balance.
- Repeat white balance adjustment alternating PICTURE setting at the minimum and maximum.

SECTION 4

CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-842.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.

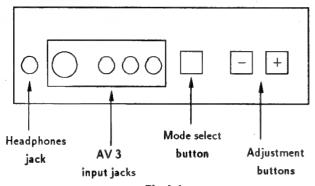
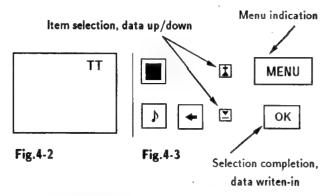


Fig.4-1

2. "TT" will appear on the upper right corner of the screen.

Command operation in service mode



3. Press the MENU button of the commander to get the menu on screen.

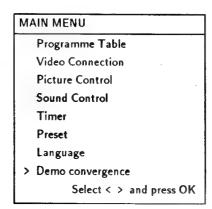


Fig.4-4

- 4. Press the

 and

 buttons of the commander and move > to DEMO.
- 5. Press OK button to proceed to the next menu.
- 6. The menu of fig.4-5 will appear on screen. Select DEVICE corresponding to the adjustment item from the table on next page.

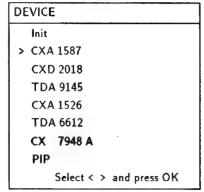


Fig.4-5

7. If adjustment item is CXA 1587, press the ∑ button and move > to CXA 1587.

CXA 1587

	Item No.	Adjustment item	Data Amount
	01	PICTURE	53
	02	COLOR	31
	03	BRIGHT	31
	04	HUE	31
	05	SHARPNESS	7
	06	RGB PICTURE	13
	07	SUB CONTRAST	ADJ.
	08	SUB COLOR	ADJ.
>	09	SUB BRIGHT	ADJ.
	10	SUB HUE	7
	11	VM LEVEL	3
	12	NR LEVEL .	0
	13	ABL MODE	0
	14	G-DRIVE	ADJ.
	15	B-DRIVE	ADJ.

- 8. Press OK button to get the next selection menu.
- 9. Press Dutton and move > to the adjustment item and press OK button.
- 10. Press the **1** and **2** buttons to change the data in order to comply each standard.
- 11. Press OK button to write data.
- 12. Turn off the power to quit service mode when completing the adjustment.

CXA 1587

CAA 1501		
Item No.	Adjustment item	Data Amount
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	13
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	3
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.
21	GAMMA LEVEL	0
22	DC TRANSFER RATIO	3
23	DINAMIC PICTURE	2
24	Y FILTER ADJ	ADJ.
25	Y DELAY TIME	15
26	Y DELAY SWITCH 1	0
27	Y DELAY SWITCH 2	1
28	SHARPNESS LIMIT	ON
29	ALL BLK	OFF
30	H SHIFT	32
31	DAC TEST	OFF
32	PRE/OVER SHOOT	7
33	SHARPNESS FO	2
34	SUB SHARPNESS	3
35	RMUTE	OFF
36	G MUTE	OFF
37	B MUTE	OFF

CXA 1526

Item No.	Adjustment item	Data Amount
01	DC SHIFT	32
02	UPPER Y BOW	4
03	LOWER Y BOW	5
04	H.AMP	48
05	H TILT	29
06	UPPER COR BOW	32 -
07	UPPER TILT	32
08	LOWER COR BOW	32
09	LOWER TILT	32

	T	1
38	AGING 1	OFF
39	AGING 2	OFF
40	AKB	ON
41	INHIBIT RGB	OFF
42	FORCED RGB	OFF
43	V/2 V	OFF
44	AXIS	PAL
45	HUE SW	OFF
46	V EXTENTION	OFF
47	AFC 1	1
48	AFC 2	0
49	AFC	ON
50	REF.POSITION	0

CXD 2018

Item No.	Adjustment item	Data Amount
01	V SIZE	No ADJ.
02	V SHIFT	No ADJ.
03	S CORRECTION	No ADJ.
04	V LINEARITY	No ADJ.
05	H SIZE	No ADJ.
06	PIN AMP	No ADJ.
07	TILT	No ADJ.
08	UPPER CORNER	No ADJ.
09	LOWER CORNER	No ADJ.
10	V BOW	No ADJ.
11	ANGLE	No ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	No ADJ.

Typical Value (OSD based)when receiving PAL Philips pattern.

TDA 6612

Adjustment item	Data Amount
Stereo-Separation	30

Should be adjusted twice 4:3 and 16:9 mode.

CX 7948 a

Cross Bar

(off)

Mesh

(off)

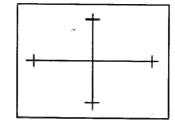
Fine Mesh

(off)

Select ▲ ▼ and press OK.

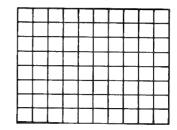
Cross Bar

(on)



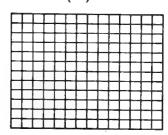
Mesh

(on)



Fine Mesh

(on)



Y FILTER ADJUSTMENT

- 1. Input PAL RED pattern.
- 2. Connect an oscilloscope to CN 0123 ① pin (R OUT) on the A board.
- 3. Enter into service mode and press 3, 8.
- 4. Adjust data by \triangle or ∇ to minimize the chroma element of CN 0123 1 pin.

SUB BRIGHTNESS ADJUSTMENT

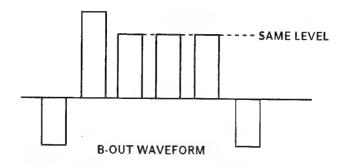
- 1. Input Phillips pattern.
- 2. Enter into service mode and press 23.
- Adjust data so that 0-IRE of the grey scale and CUT
 -OFF 20-IRE glitter slightly.

SUB CONTRAST ADJUSTMENT

- 1. Input a video that contains small 100% area on the Black Back ground.
- Enter into service mode and press 01 to have PIC max followed by 21.
- 3. Adjust data so that 2.5 Vp-p can be obtained at ① CN 0123 (R out).

SUB COLOR ADJUSTMENT

- 1. Input PAL color bar.
- 2. Connect an oscilloscope to CN 0125 (1) pin (B OUT) on the A board.
- 3. Enter into service mode and press 22 of CXA 1587, 8 SUB COLOR.
- 4. Adjust data so that the right sides of the waveform will be the same.



STEREO-SEPARATION ADJUSTMENT

- Input 1 kHz stereo signal to the L-ch and 400 Hz stereo signal to the R-ch.
- 2. Enter into service mode and press 19.
- 3. Adjust data so that sound does not leak to the R-ch and the L-ch.

DRIVE AND CUT OFF

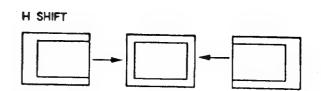
See direct test mode list attached and refer to sub brightness or such for adjustment method.

DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into service mode and select CXD 2018.
- 2. Select and adjust each item in order to get an optimum image.

CXD 2018

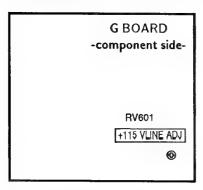
Item No.	Adjustment item	Data Amount
01	V SIZE	No ADJ.
02	V SHIFT	No ADJ.
03	S CORRECTION	No ADJ.
04	V LINEARITY	No ADJ.
05	H SIZE	No ADJ.
06	PIN AMP	No ADJ.
07	TILT	No ADJ.
08	UPPER CORNER	No ADJ.
09	LOWER CORNER	No ADJ.
10	V BOW	No ADJ.
11	ANGLE	No ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	NON INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	No ADJ.



3. Press OK button to write the data.

If menu display may disturb the adjustment press of to clear, to resume it, press of again.

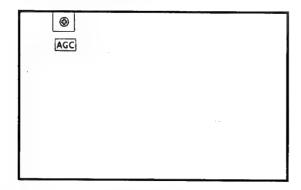
4-2. G BOARD ADJUSTMENTS



+115 V ADJUSTMENT (RV 601)

- 1. Input the color-bar signal.
- 2. Connect a digital multimeter to 5 pin of CN 1654.
- 3. Adjust RV 601 so that voltage is $+115 \text{ V} \pm 0.5 \text{ V}$.

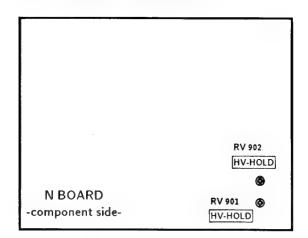
4-3. IF ADJUSTMENT



AGC ADJUSTMENT (IF BLOCK)

- 1. Receive off-air signal.
- 2. Adjust AGC VR so that there is no snow noise and cross-modulation.
- 3. Change receiving channel and confirm status.

4-4. N BOARD ADJUSTMENTS



HV-HOLD DOWN ADJUSTMENT

- 1. Connect the HV meter.
- 2. Receive dot pattern.
- 3. Adjust HV to $33.5 \pm 0.1 \text{ KV by RV } 901.$
- 4. Slowly turn the RV 902 till HV-HOLD DOWN work.
- 5. RV 902 fixed with RTV.

HV-REGULATOR ADJUSTMENT

- 1. Connect the HV meter.
- 2. Receive dot pattern.
- 3. Adjust HV to 31.5 ± 0.1 KV by RV 901.
- 4. RV 901 fixed with RTV.

4-5. TEST MODE 2:

Is available by pressing Test button two times, OSD "TT" appears. The functions described bellow are available by pressing the two numbers. To release the Test Mode 2, press two times 0, or switch TV in Standby Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Aging Condition (Volumin., Picture max., Brightness
,	max., Aging 2 Mode of CXA 1587, TDA 2595 is
	locked to CXA 1587 via PIN 34 of μ -Con.)
80	Shipping Condition (Analog Values are RESET due
	to factory setting, Prog 1 is selected, TT Mode is
	switched off)
09	dummy
10	Tenth entry is deleted
_11	Balance
12	Hue
13-14	dummy
15	Read factory setting from NVM
	Reads Volume, Balance, Treble, Bass, Brightness,
	Contrast, Hue, Sharpness, Colour values from ROM
	to the actual used values (Last Power Memory)
16	Save actual used values as RESET values
	Memorize actual used values Balance, Treble, Bass,
	Hue, Sharpness at RESET position in NVM
17	Preset Lavel for AV Sources
18	dummy
19	Stereo Seperation
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24-29	dummy

30	Tenth entry is deleted
31	Green Drive
32	Blue Drive
33	Green Cut Off (Auto Cut Off)
34	Blue Cut Off (Auto Cut Off)
35	Red Cut Off (Manual Cut Off)
	(Auto Cut Off is switched off)
36	Green Cut Off (Manual Cut Off)
	(Auto Cut Off is switched off)
37	Blue Cut Off (Manual Cut Off)
	(Auto Cut Off is switched off)
38	Y-Filter adjustment (Trap is switched off and TDA
	9145 is switched in forced NTSC Mode)
39	dummy
40	Tenth entry is deleted
41	Default setting of CXA 1587
	(Only in Plog 99 available)
42	Default setting of CXA 2018
	(Only in Plog 99 available)
43	Default setting of CXA 1526
	(Only in Plog 99 available)
44	(all Port High) Not yet
45	(all Port High) Not yet
46-48	dummy
49	Erease the NVM Testbyte (this byte detects already
	stored NMV's) After selecting this function, switch
	TV Off and On $ ightarrow$ the NVM will be preset by μ -
	Controller. (Not the channel data)

Note: For No. 35, 36, 37 and 38 special pressing (AKB, forced Color Mode, Trap) is selected.

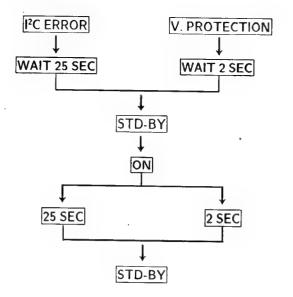
After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched On and TDA 9145 is switched to Auto Search Mode.

In Test Mode 2 the Menu display is switchable by Speaker-Off button.

4-6. ERROR MESSAGE

Self diagnos system can operates as follows.

 When MP can't get the acknowledge back from the device, LED starts flashing according to the table as attached.



In case of more errors in parallel, the blinking error shows max. Priority according to the error number (e.g. error 2 and error 5 appears together, then LEDs shows error 2).

TABLE OF ERRORS

IC TYPE	FUNCTION
II C BUS	SDA low
X 24 C 16	EEPROM
SDA 3202	Tuner PII
TDA 9145	Colour decoder
CXA 1587	RGB/Jungle
TDA 6612	Sound processor
CXD 2018	V deflection
CXA 1545	AV switch
SDA 5248	Text
	V protection
	X 24 C 16 SDA 3202 TDA 9145 CXA 1587 TDA 6612 CXD 2018 CXA 1545

Stand by LED

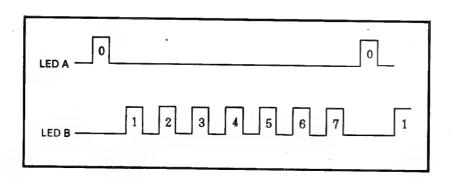
No IK return

blinking

4-7. ERROR II C BUS DIAGNOSIS SYSTEM

For all ICs in AP-1E chassis which are neccessary to get picture and sound there is a built in error I²C Bus diagnosis system.

In case of no acknowledge bit, LED A and LED B starts blinking as shown.



MEMO							
		-					
							
		-					

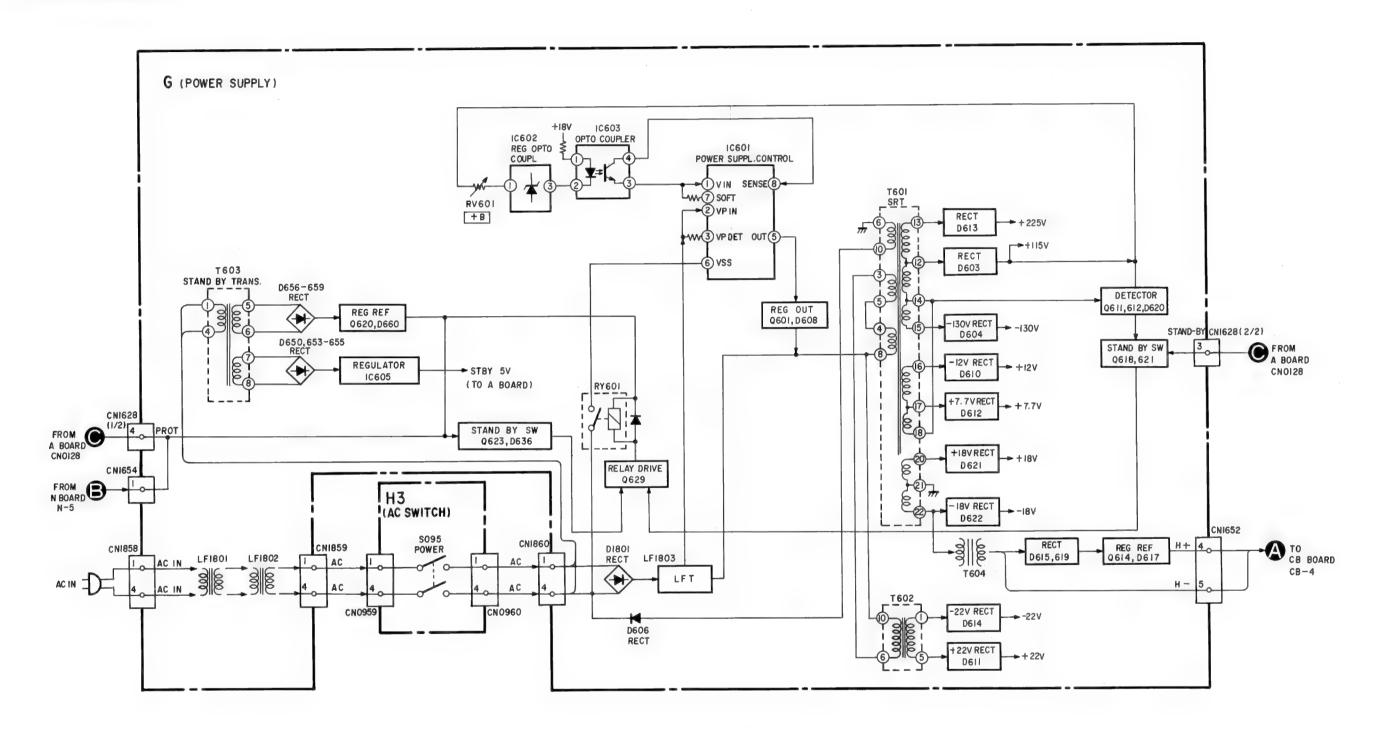
		•		- 57 87 22 4			

						N.	
			**				
	7//						

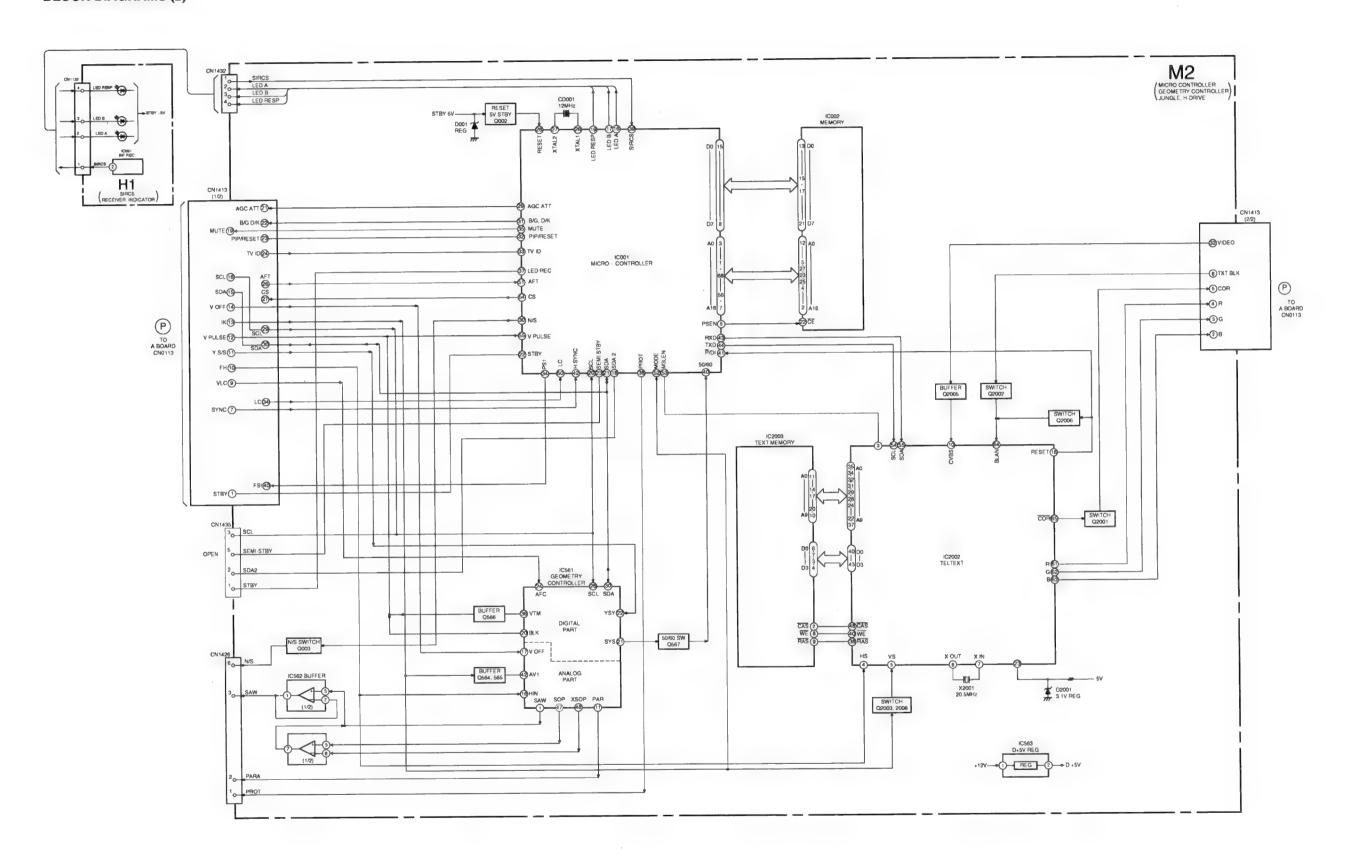
	* .			•		•	
					\$ 100 Bits		
					1000 000		***
	-		 -	· ·		- 11	
				100			
			·				
	-						
			 -			*	

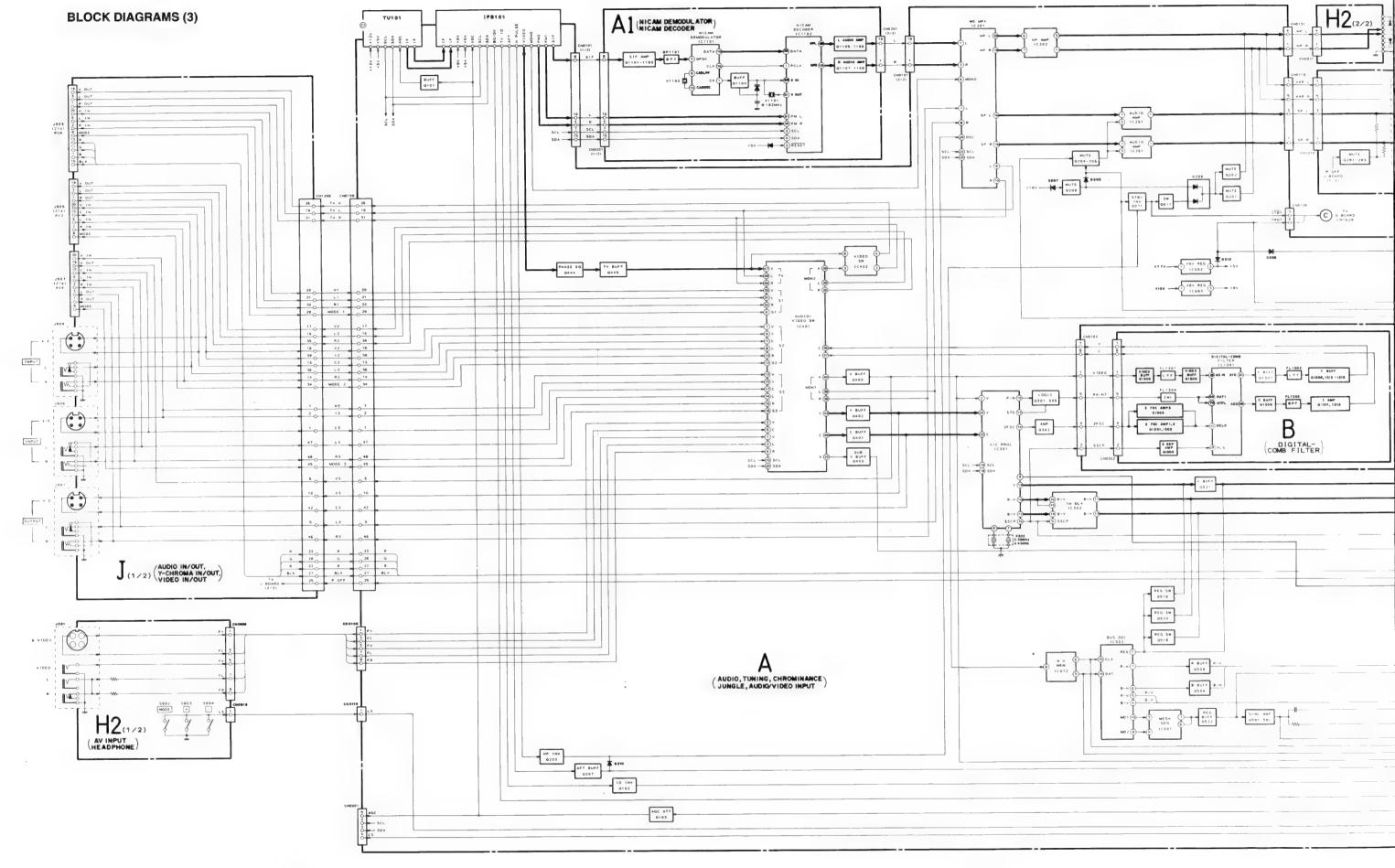
SECTION 5 DIAGRAMS

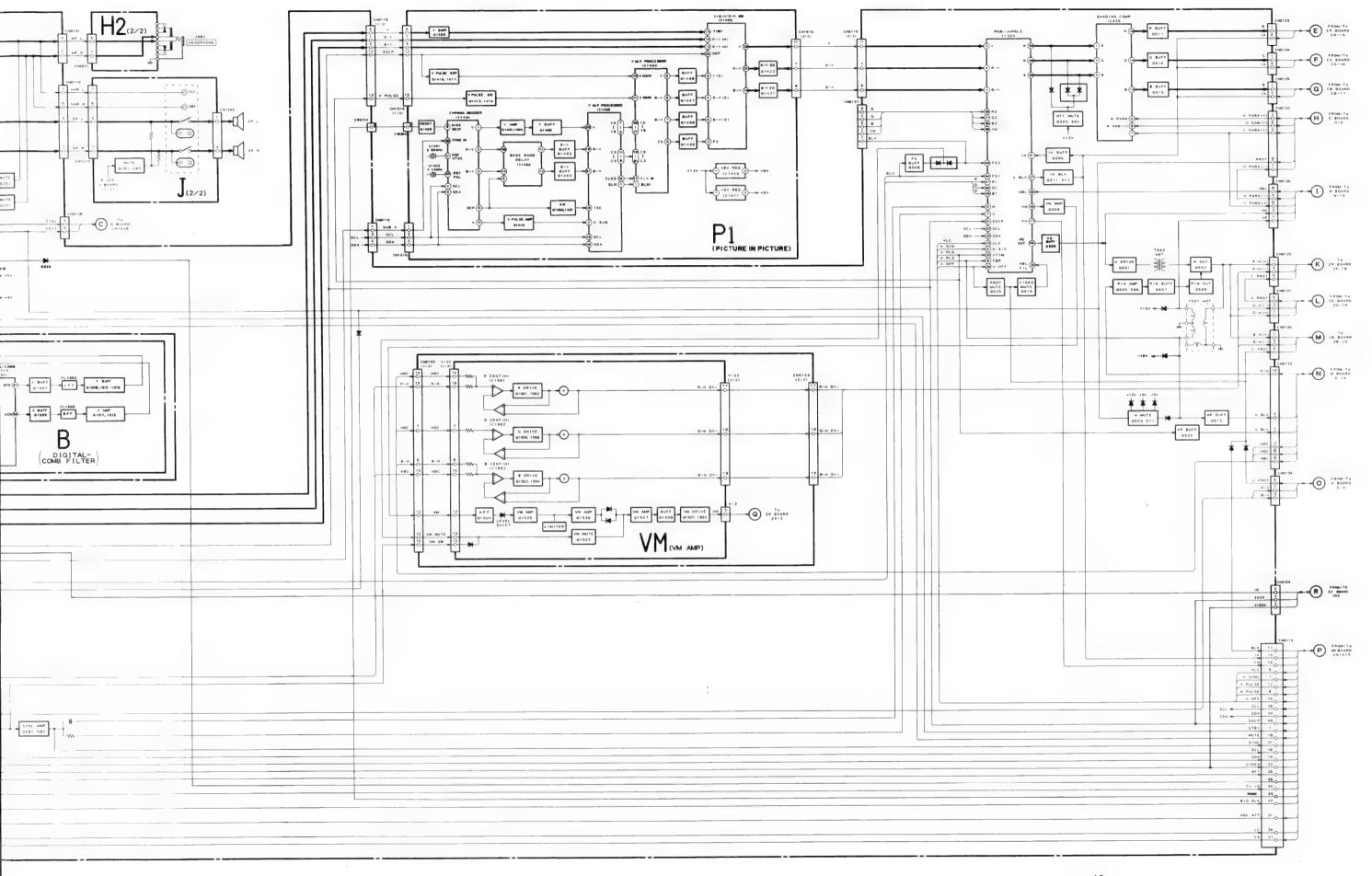
5-1. BLOCK DIAGRAMS (1)



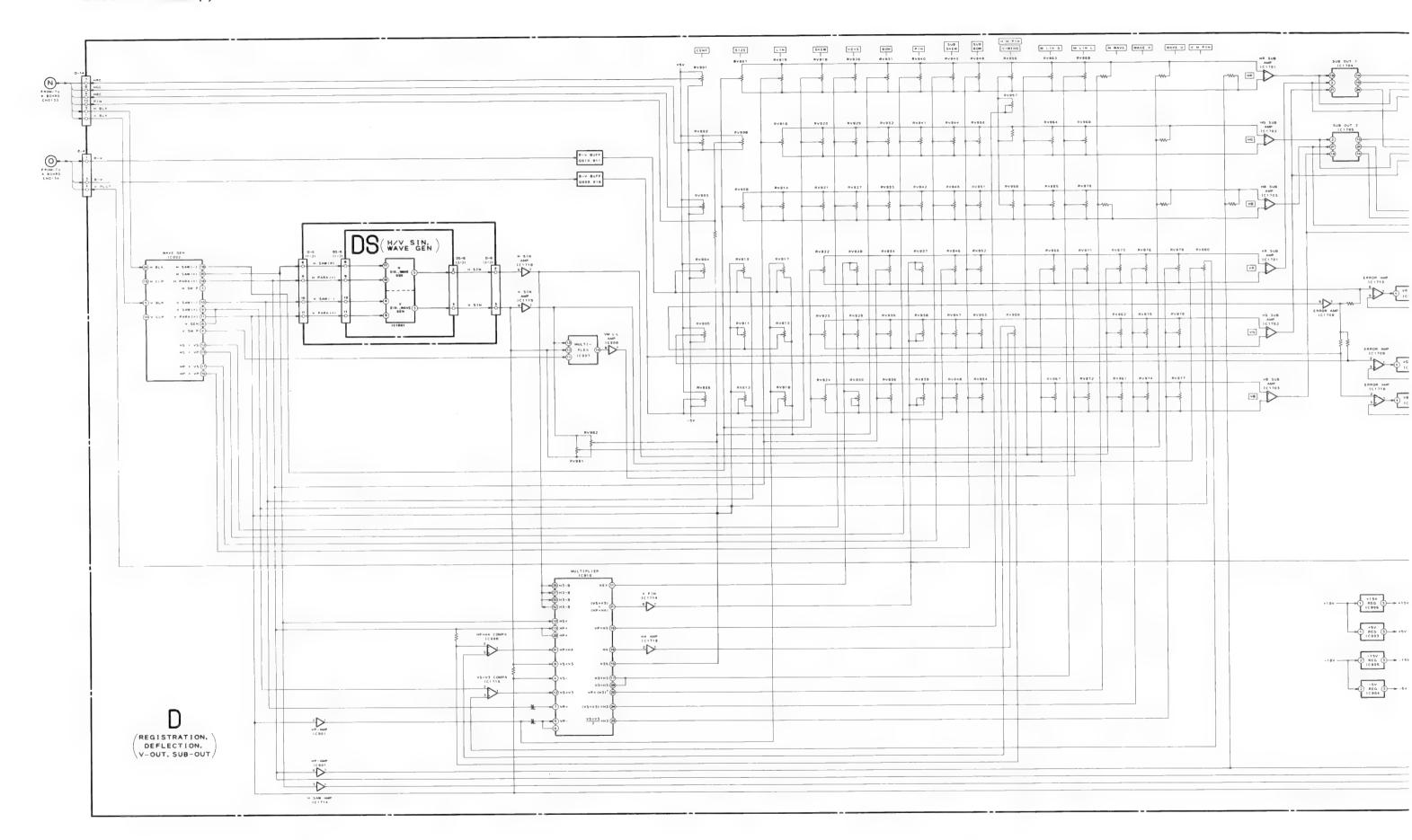
BLOCK DIAGRAMS (2)

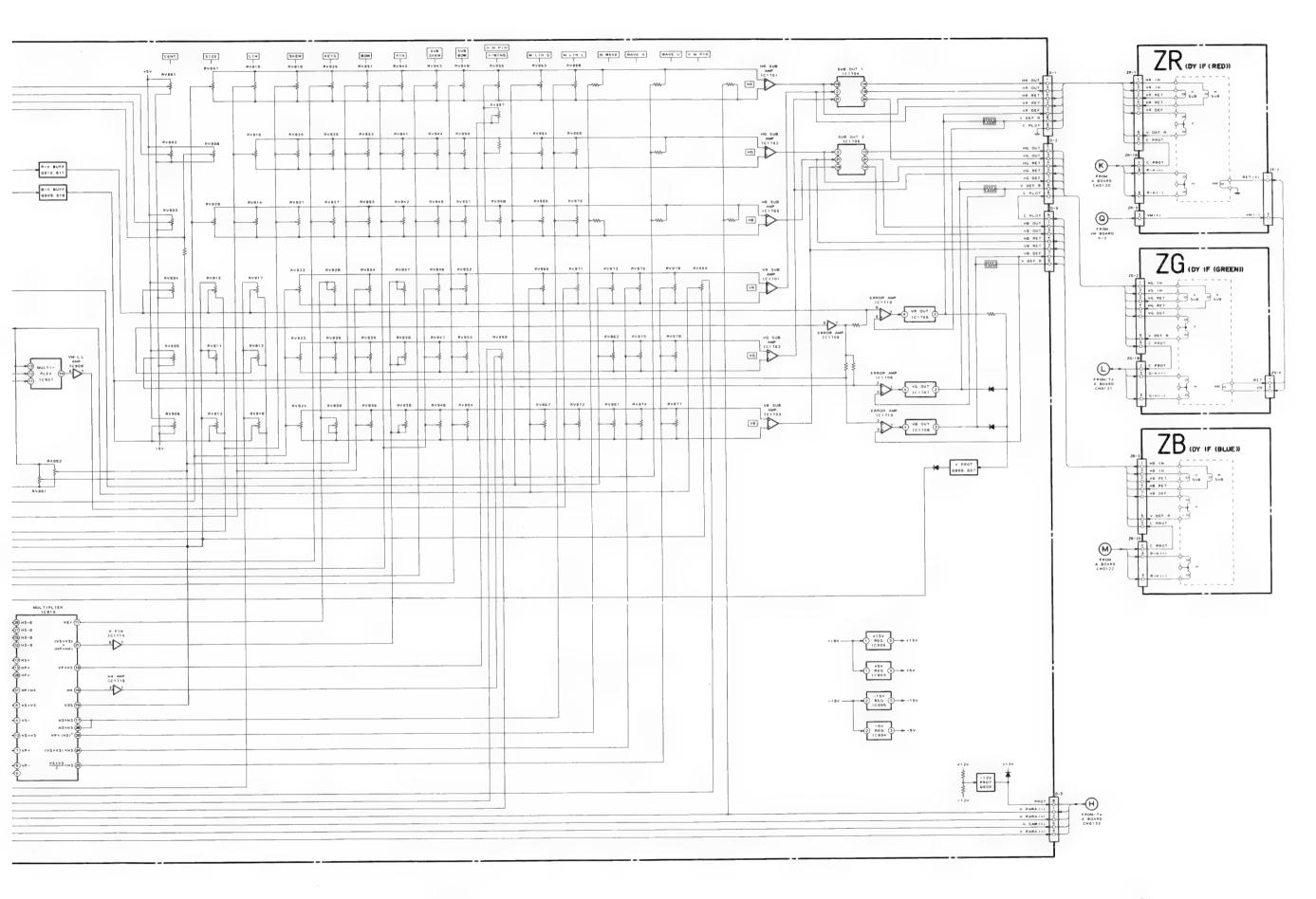




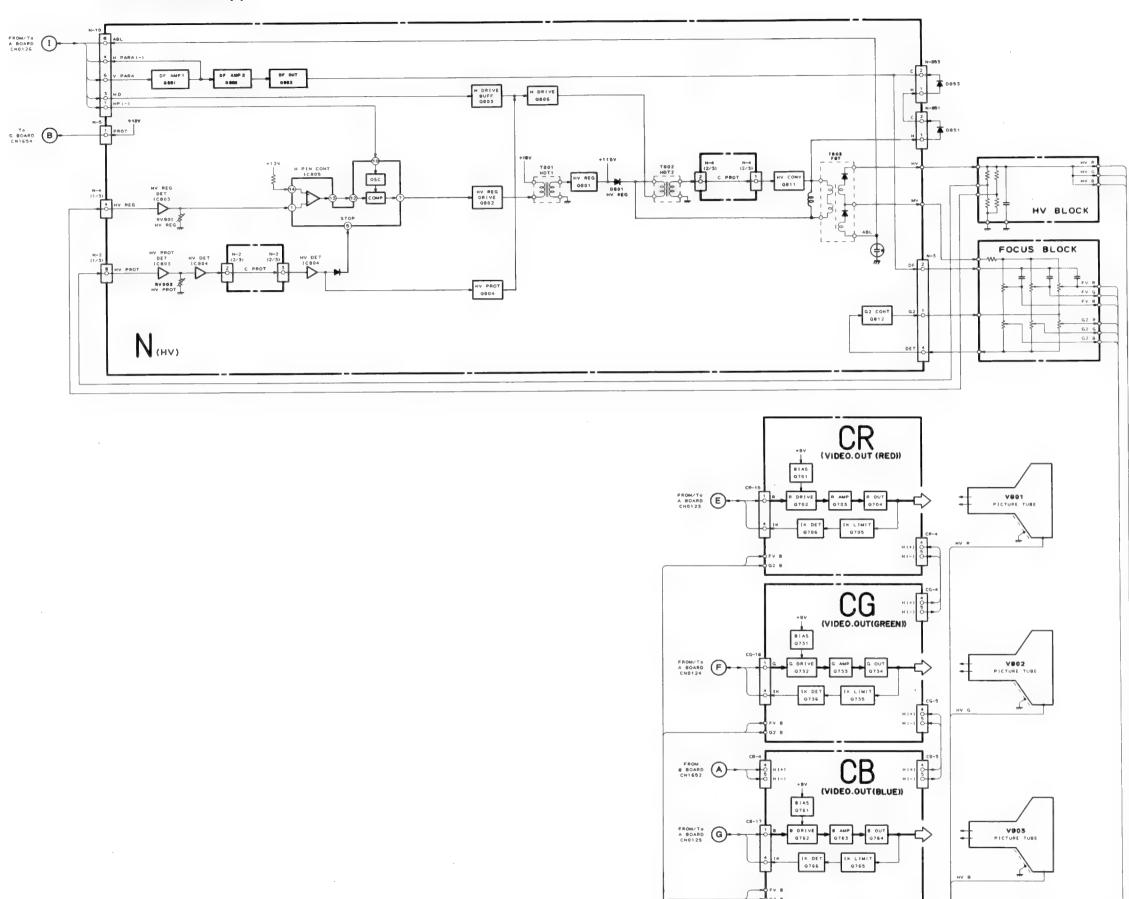


BLOCK DIAGRAMS (4)

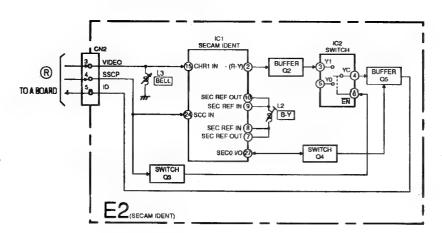




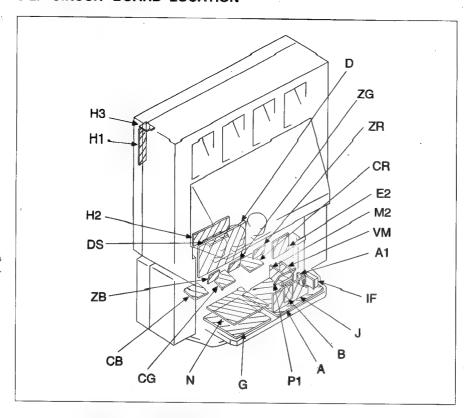
BLOCK DIAGRAMS (5)



BLOCK DIAGRAMS (6)



5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.

All resistors are in ohms.

k = 1000, M = 1000K

Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 4 W

: nonflammable resistor. : internal component.

: panel designation, or adjustment for repair.

All variable and adjustable resistors have characteristic curve

B, unless otherwise noted.

上 : earth - ground. 111 : earth - chassis.

#

: no mounted.

Note: The components identified by shading and marked are critical for safety. Replace only with part number specified.

Reference information

RESISTOR : RN METAL FILM

: RC SOLID

: FPRD NONFLAMMABLE CARBON

: FUSE NONFLAMMABLE FUSIBLE

: RS NONFLAMMABLE METAL OXIDE

: RB NONFLAMMABLE CEMENT

: RW NONFLAMMABLE WIREWOUND

: X: ADJUSTABLE RESISTOR

COIL : LF-8L MICRO INDUCTOR

CAPACITOR :TA TANTALUM

> : PS STYROL

POLYPROPYLENE : PP

> :PT **MYLAR**

: MPS METALIZED POLYESTER

: MPP METALIZED POLYPROPYLENE

: ALB **BIPOLAR**

: ALT HIGH TEMPERATURE

: ALR HIGH RIPPLE

Readings are taken with a colour-bar signal input.

Readings are taken with 10M digital multimeter.

Voltages are dc with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production

tolerances.

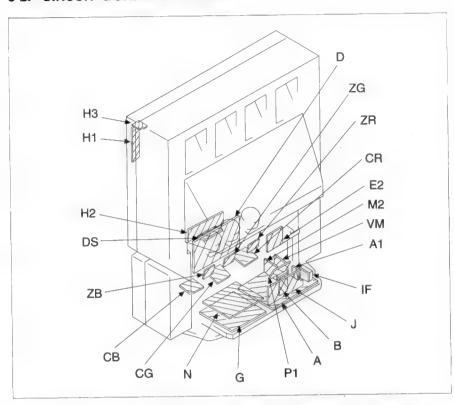
All voltages are in V.

Circled numbers are waveform references.

: B+ bus.

: signal path. (RF)

5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note	:	
Tione	۰	

All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.

All resistors are in ohms.

k = 1000, M = 1000K

Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 4 W

: nonflammable resistor. : internal component.

: panel designation, or adjustment for repair.

All variable and adjustable resistors have characteristic curve

B, unless otherwise noted. : earth - ground.

: earth - chassis. : no mounted.

Note: The components identified by shading and marked are critical for safety. Replace only with part number specified.

Reference information

METAL FILM RESISTOR : RN : RC SOLID : FPRD NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE : FUSE NONFLAMMABLE METAL OXIDE : RS : RB NONFLAMMABLE CEMENT NONFLAMMABLE WIREWOUND : RW ADJUSTABLE RESISTOR : X COIL : LF-8L MICRO INDUCTOR **TANTALUM** CAPACITOR : TA : PS STYROL POLYPROPYLENE : PP : PT MYLAR : MPS METALIZED POLYESTER METALIZED POLYPROPYLENE : MPP **BIPOLAR** : ALB HIGH TEMPERATURE : ALT HIGH RIPPLE : ALR Readings are taken with ■ colour-bar signal input.

Readings are taken with 10M digital multimeter

Voltages are dc with respect to ground unless otherwise noted.

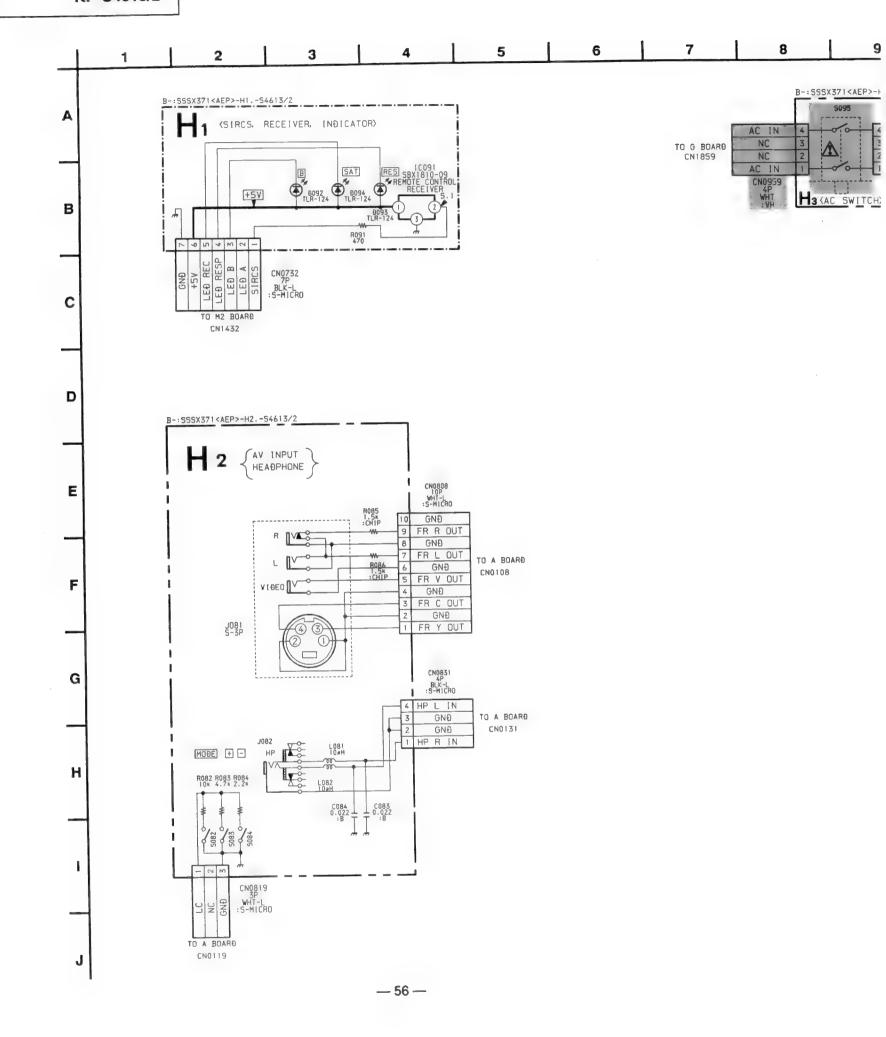
Voltage variations may be noted due to normal production

All voltages are in V.

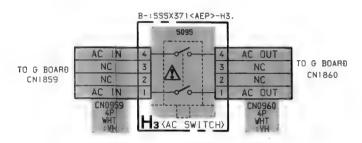
Circled numbers are waveform references.

: B+ bus.

: signal path. (RF)



7 | 8 | 9 | 10 | 11



KP-S4613/2

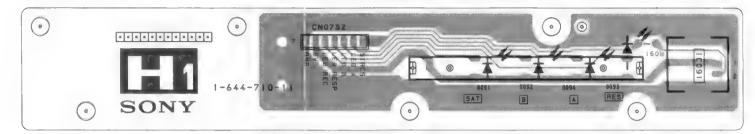
KP-S4613/2



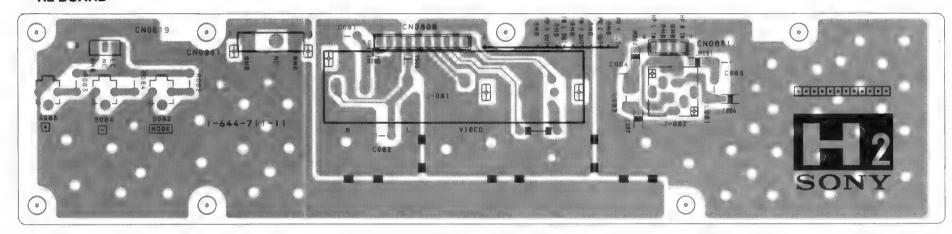




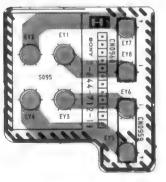
- H1 BOARD -

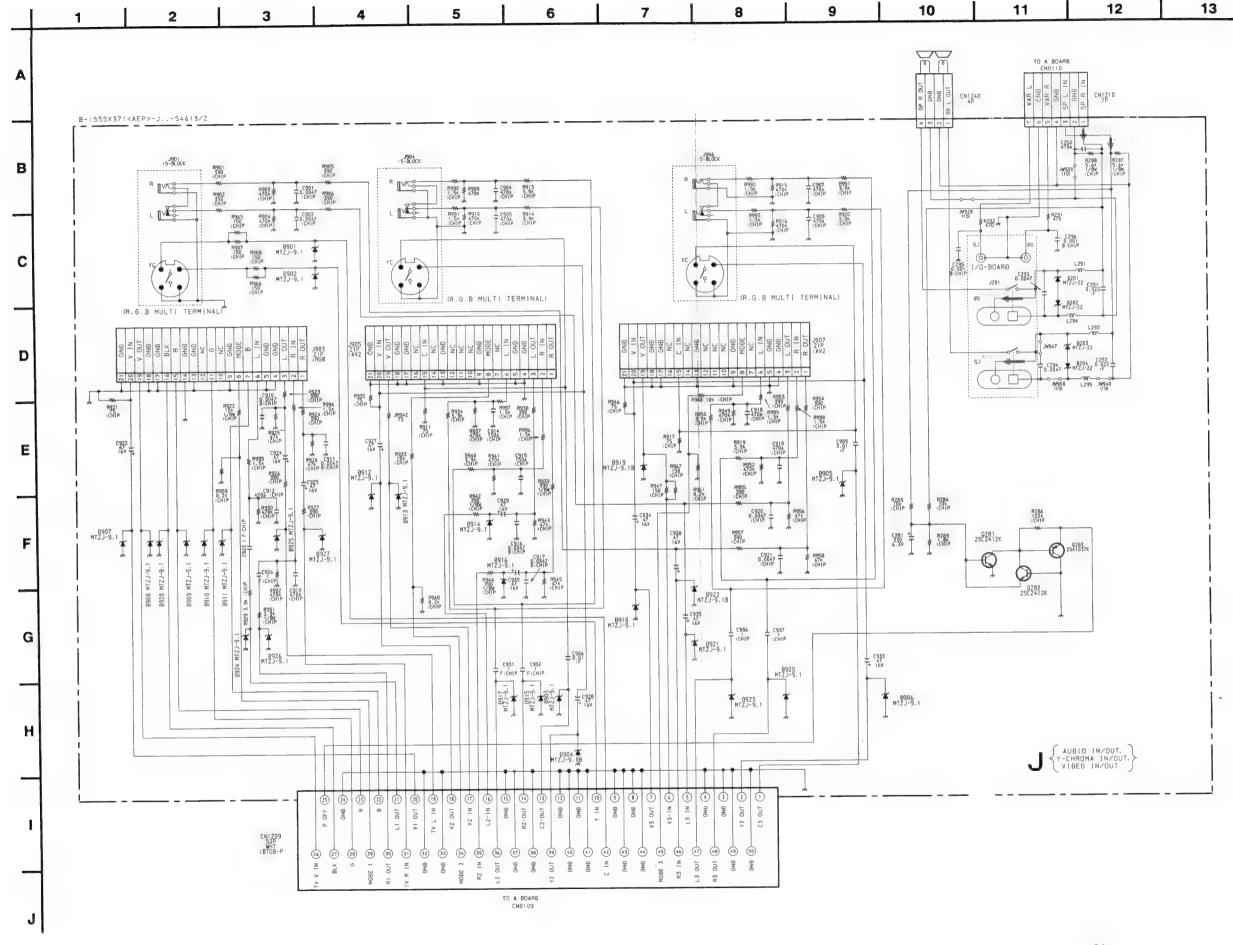


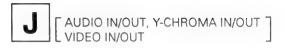
- H2 BOARD -



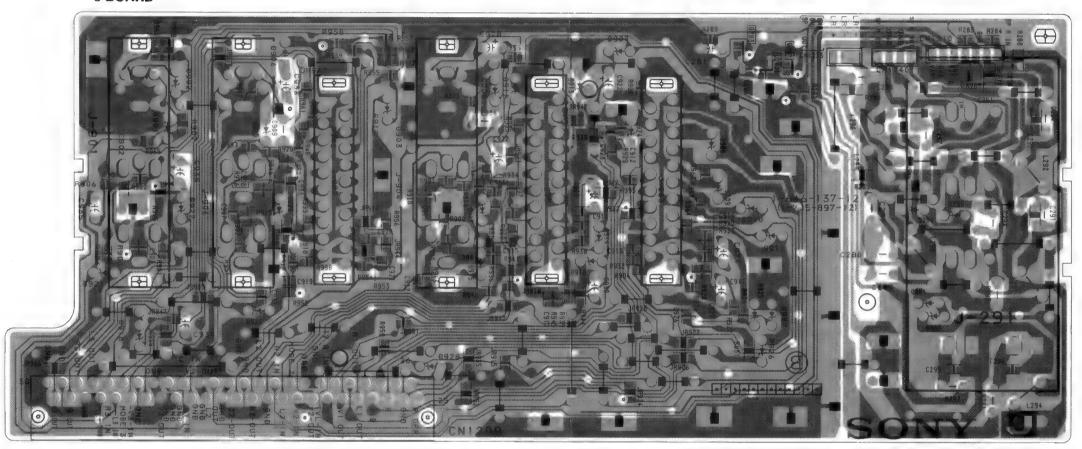
- H3 BOARD -



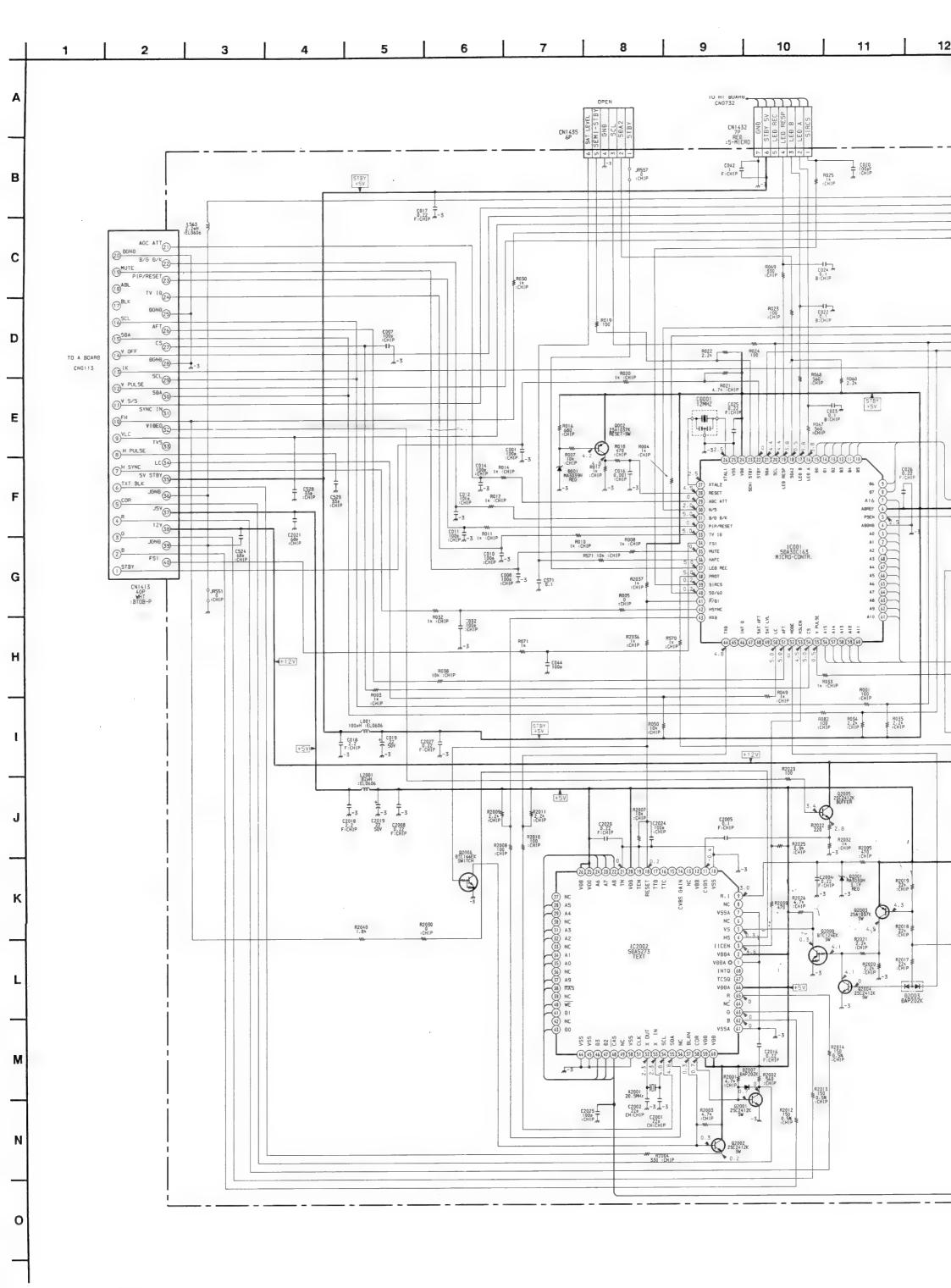


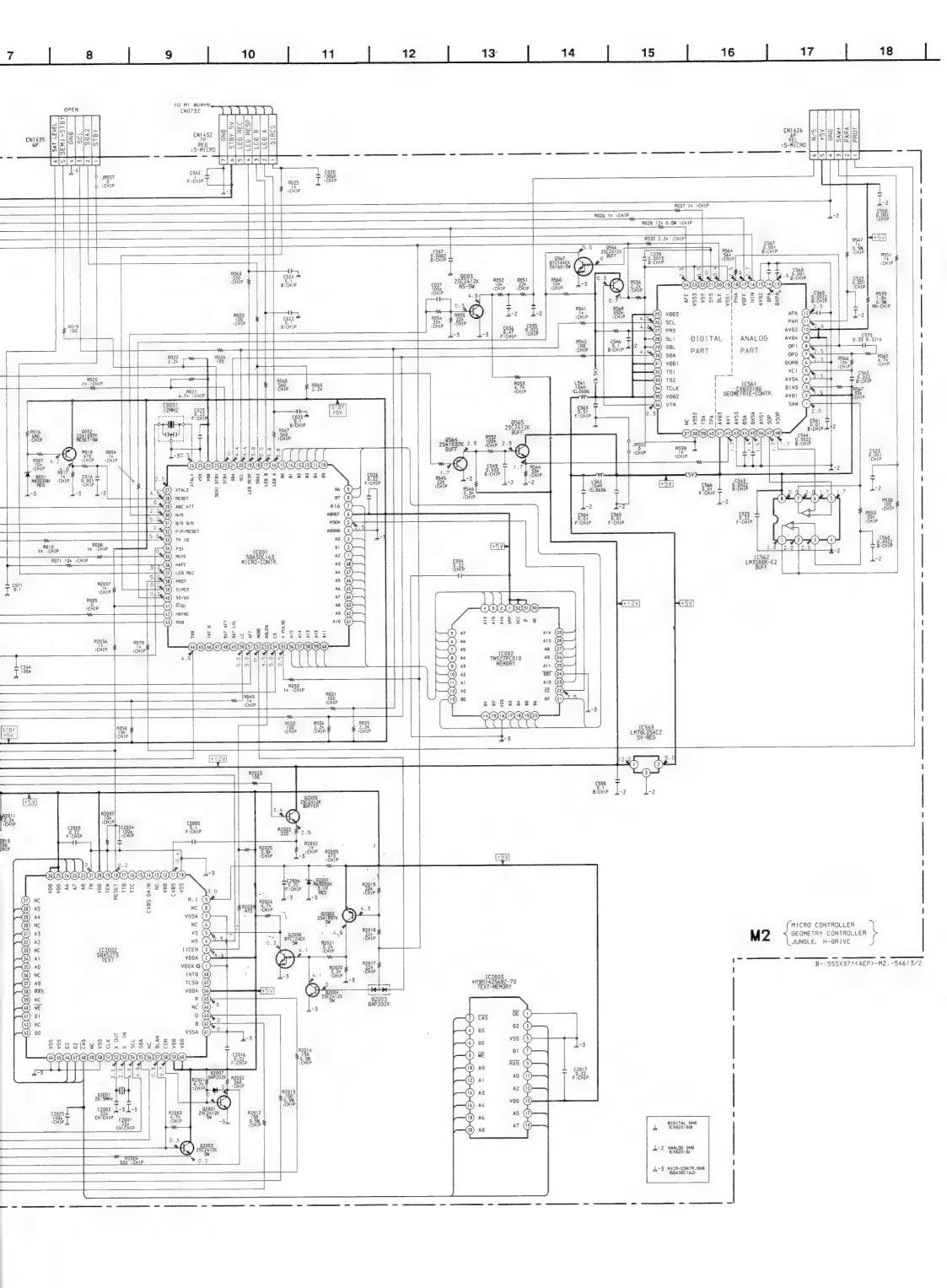


- J BOARD -

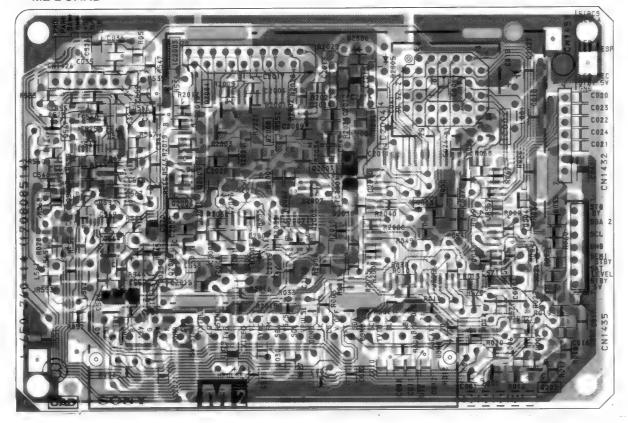


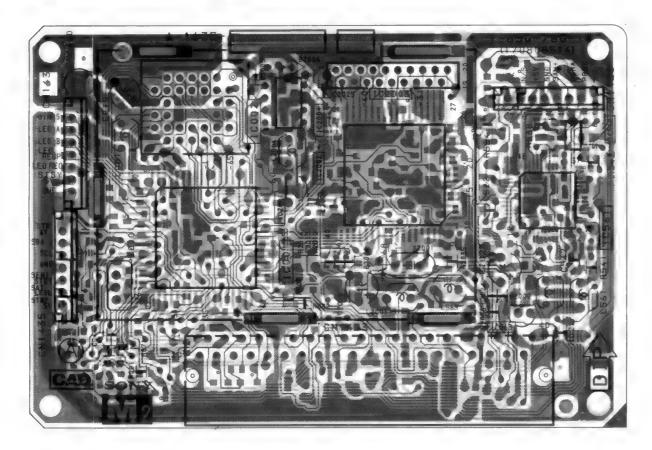
- Pattern from the side which enables seeing.
- Pattern of the rear side.





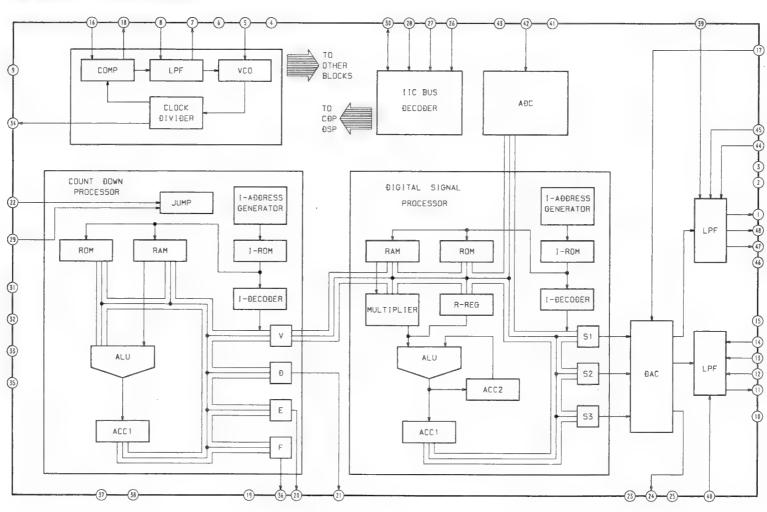
- M2 BOARD -





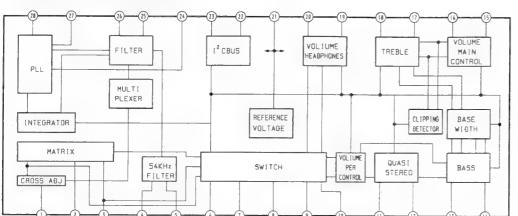
- #### : Pattern from the side which enables seeing.
- Pattern of the rear side.

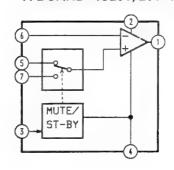
M2 BOARD IC561 CXD2018Q





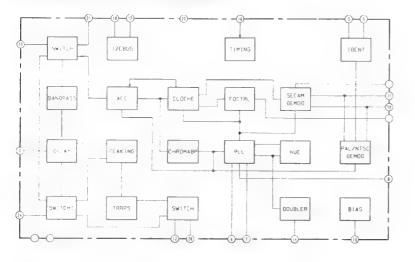
A BOARD IC251, 261 TDA2052

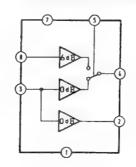




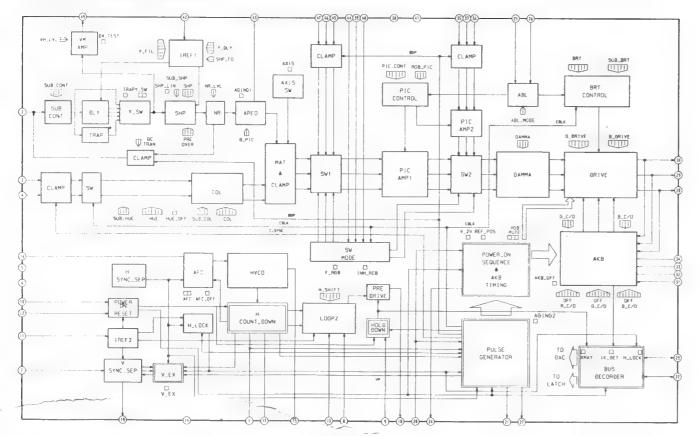
A BOARD IC301 TDA9145/N2B

A BOARD IC402 TEA2114

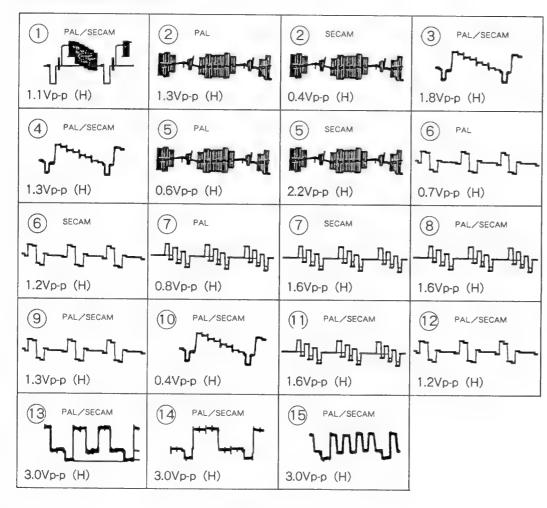




A BOARD IC304 CXA1587S



WAVEFORMS A BOARD



0

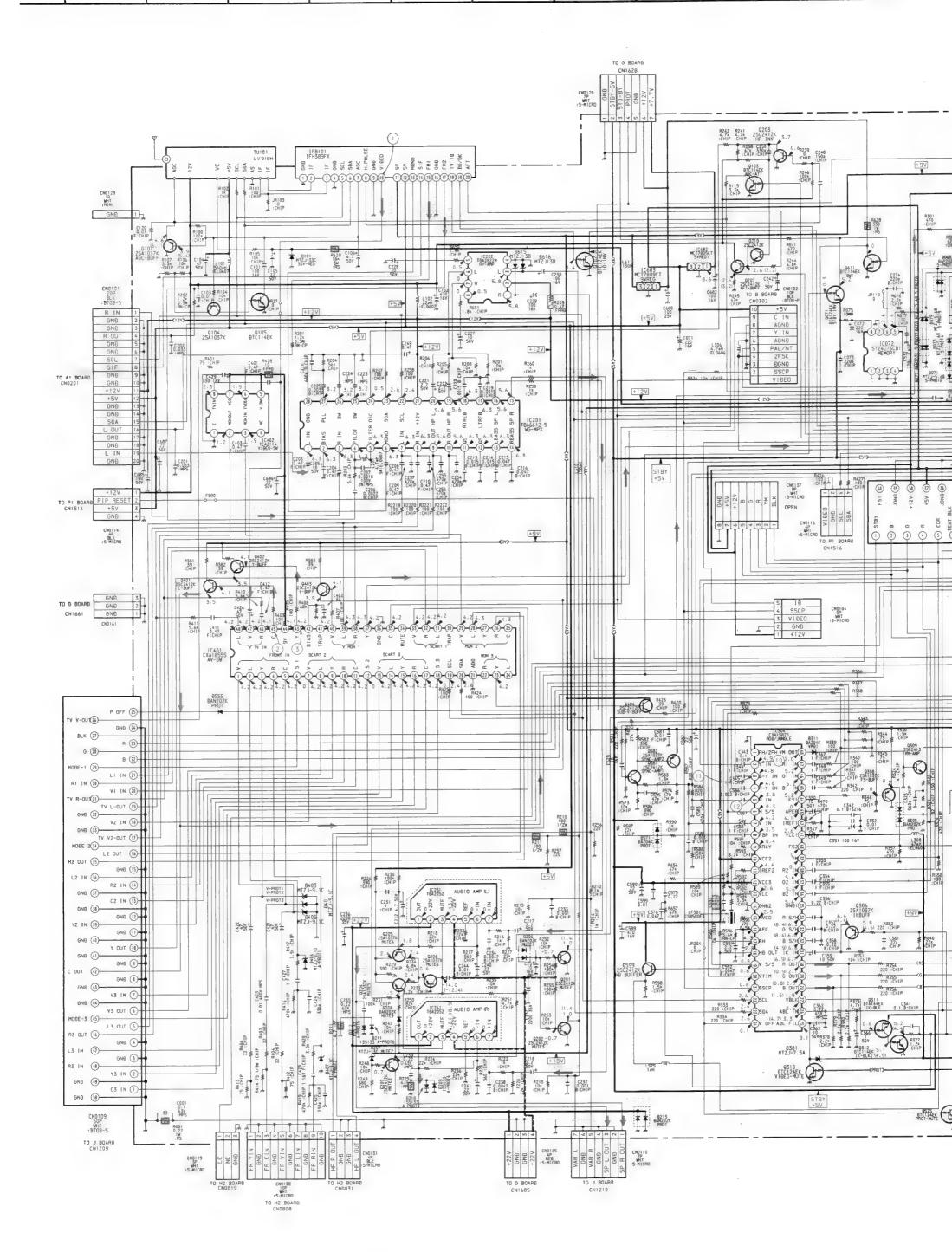
R503 0.47 :FPR9

(1) (3)

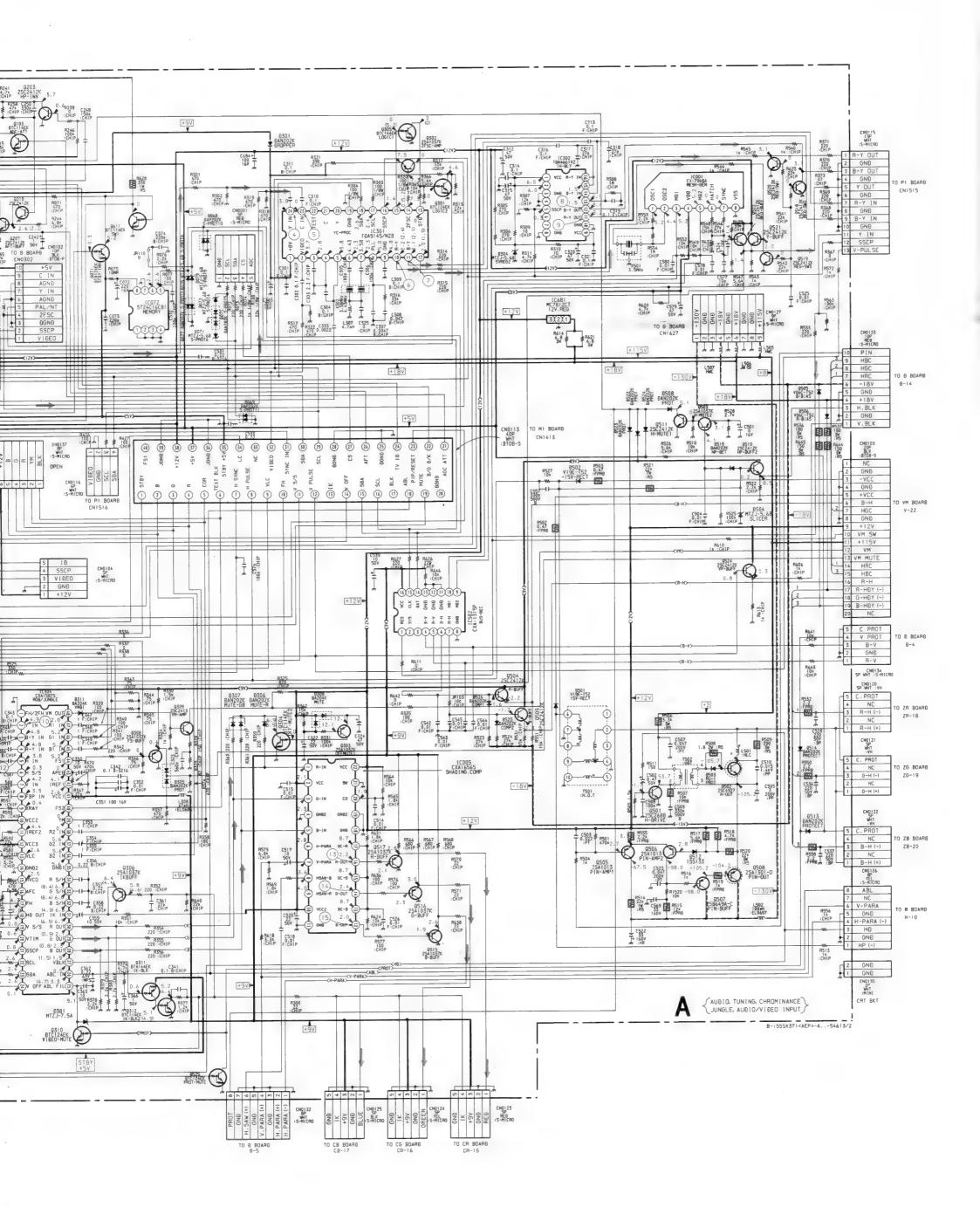
17

1

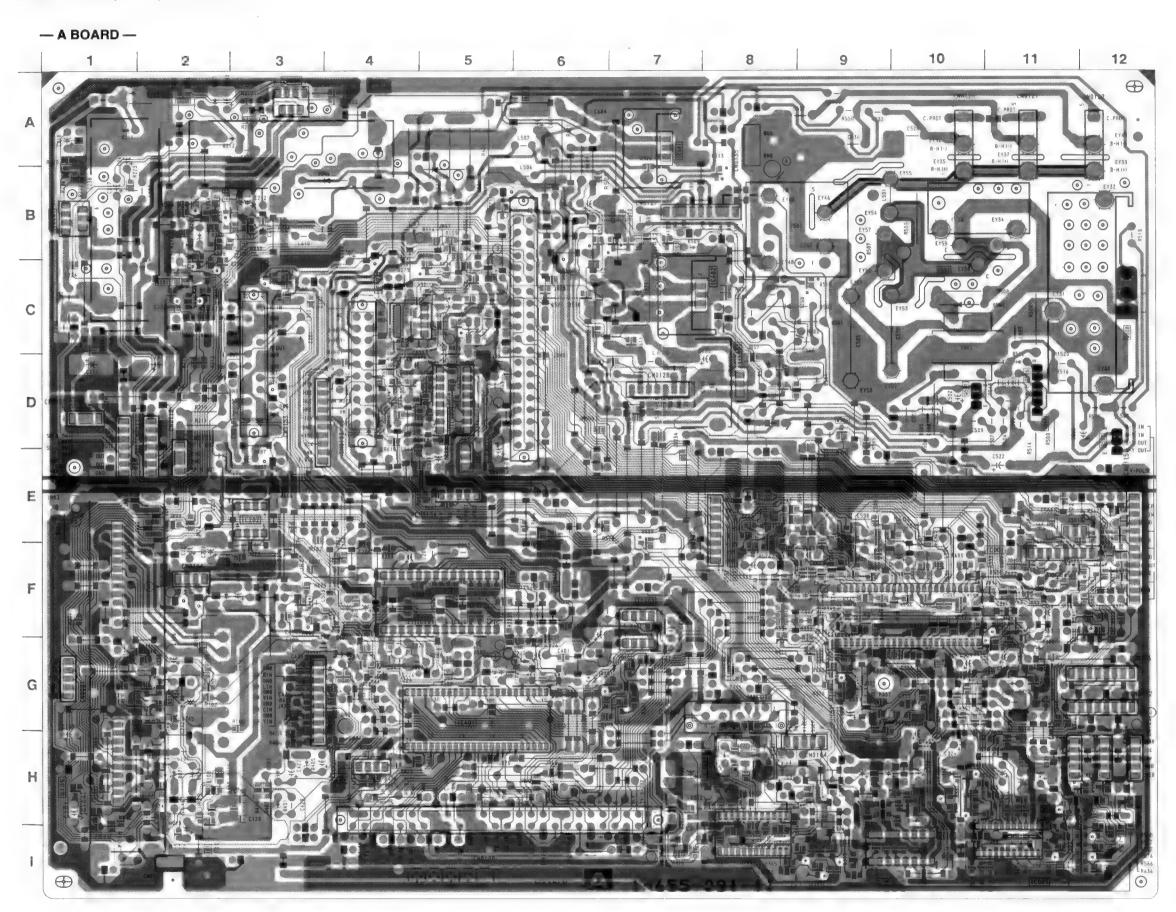
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12



10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21





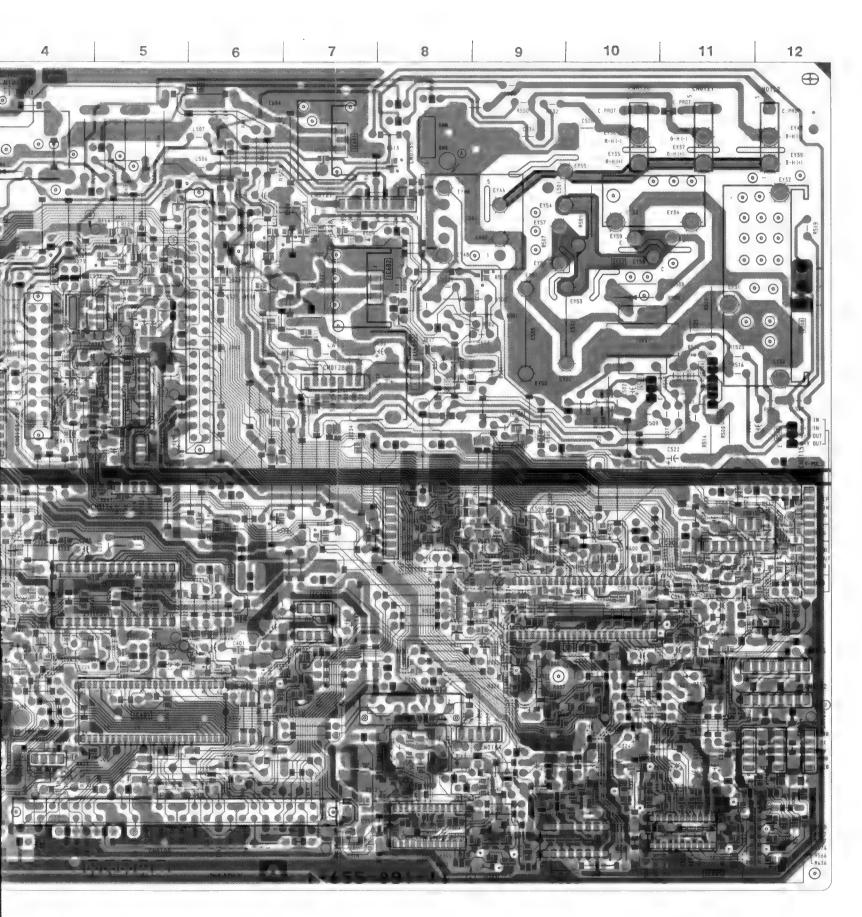


- A BOARD -

_	- A DC	AND —				
	IC					
	IC001	F-11				
ı	IC005	I-11 C-4				
-1	IC072 IC201	F-5				
1	IC202	E-3				
- 1	IC251	A-3				
-1	IC261	B-1				
-1	IC301	1-8				
-	IC302	I-10	l			
- 1	IC304	G-10	l			
- 1	IC401	G-5	ŀ			
- 1	IC402	F-7	ı			
- 1	IC502 IC681	D-5 A -7	l			
	IC682	C-8	l			
	IC683	D-8	l			
	10003	D-0	l			
- 1	TRAN	SISTOR				
	Q071	B-5				
-	Q101	1-2	l			
-1	Q102	H-1	l			
- 1	Q103	H-2				
	Q104	H-1	l			
	Q105	H-1	١			
	Q201 Q202	C-2 C-2	l			
	Q202	G-2	l			
	Q204	B-3	ŀ			
	Q205	B-2	l			
	Q206	B-2	t			
	Q207	G-2	ļ			
	Q209	C-2	l			
	Q210	G-2	I			
	Q301	1-9	١			
	Q302	1-9	١			
	Q303	H-10	l			
	Q304	H-10	l			
	Q305	I-9	1			
	Q306 Q308	G-11 G-9	١			
	Q308 Q309	G-9	1			
	Q310	G-11				
	40.0	- · ·	1			

[:] Pattern from the side which enables

[•] Pattern of the rear side.



— A BOARD —

— A BUARD —						
IC		Q311	F-10	D208	B-2	
		Q312	F-11	D209	A-1	
IC001	F-11	Q401	G-7	D210	A-1	
IC005	1-11	Q402	G-7	D211	A-2	
IC072	C-4	Q403	G-7	D212	A-2	
IC201	F-5	Q404	H-4	D213	C-1	
IC202	E-3	Q501	D-10	D301	H-7	
IC251	A-3	Q502	C-10	D304	H-10	
IC261	B-1	Q503	B-7	D305	G-9	
IC301	I-8	Q504	D-4	D306	H-10	
IC302	I-10	Q505	D-11	D307	H-10	
IC304	G-10	Q506	D-11	D308	H-10	
IC401	G-5	Q507	D-12	D311	G-8	
1C402	F-7	Q508	C-12	D381	G-11	
IC502	D-5	Q509	D-4	D401	H-3	
IC681	A-7	Q510	D-8	D403	H-3	
IC682	C-8	Q511	B-7	D405	H-3	
IC683	D-8	Q515	I-12	D406	G-4	
		Q516	1-12	D407	G-4	
TRANS	ISTOR	Q517	1-12	D501	C-9	
0074	D.C	Q518	F-12	D502	C-9	
Q071	B-5	Q519	F-12	D503	C-10	
Q101	1-2	Q520	F-12	D504	D-9	
Q102	H-1	Q521	F-12	D505	B-5	
Q103	H-2	Q522	F-12	D506	B-3	
Q104	H-1	Q524	F-6	D508	B-7	
Q105	H-1	Q525	F-11	D510	C-9	
Q201	C-2	Q581	F-8	D512	D-11	
Q202	C-2	Q582	E-8	D513	A-8	
Q203	G-2	Q599	D-9	D514	E-6	
Q204	B-3	Q611	A-6	D522	C-6	
Q205	B-2	4011		D523	D-7	
Q206	B-2	DIODE		D524	B-6	
Q207	G-2	0000	0.5	D525	D-4	
Q209	C-2	D068	C-5	D526	D-4	
Q210	G-2	D069	G-2	D555	E-7	
Q301	1-9	D071	H-2	D571	E-9	
Q302	1-9	D073	H-2	D615	E-2	
Q303	H-10	D075	H-2	D616	E-3	
Q304	H-10	D077	C-5	5010	2.0	
Q305	1-9	D078	C-5			
Q306	G-11	D079	C-5			
Q308	G-9	D101	F-2			
Q309	G-9	D206	C-2			
Q310	G-11	D207	B-2			

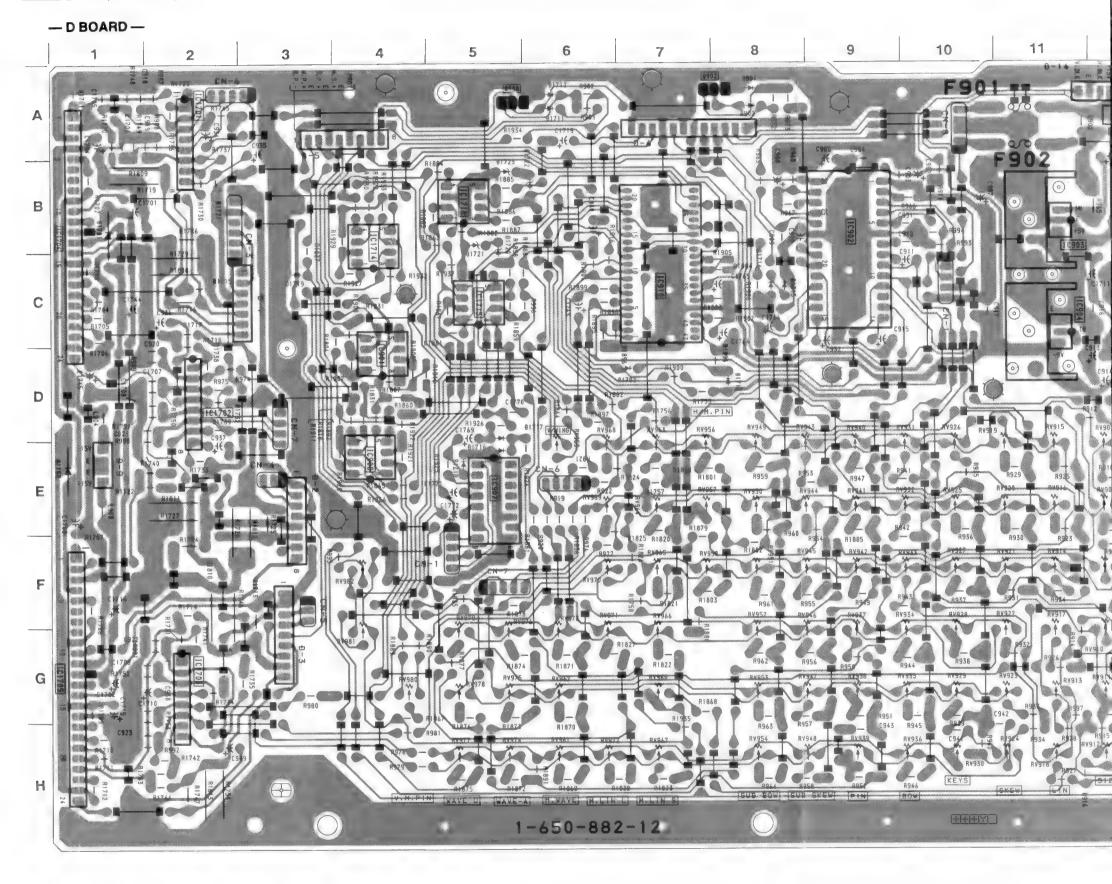
[•] Pattern from the side which enables seeing.

[•] Pattern of the rear side.

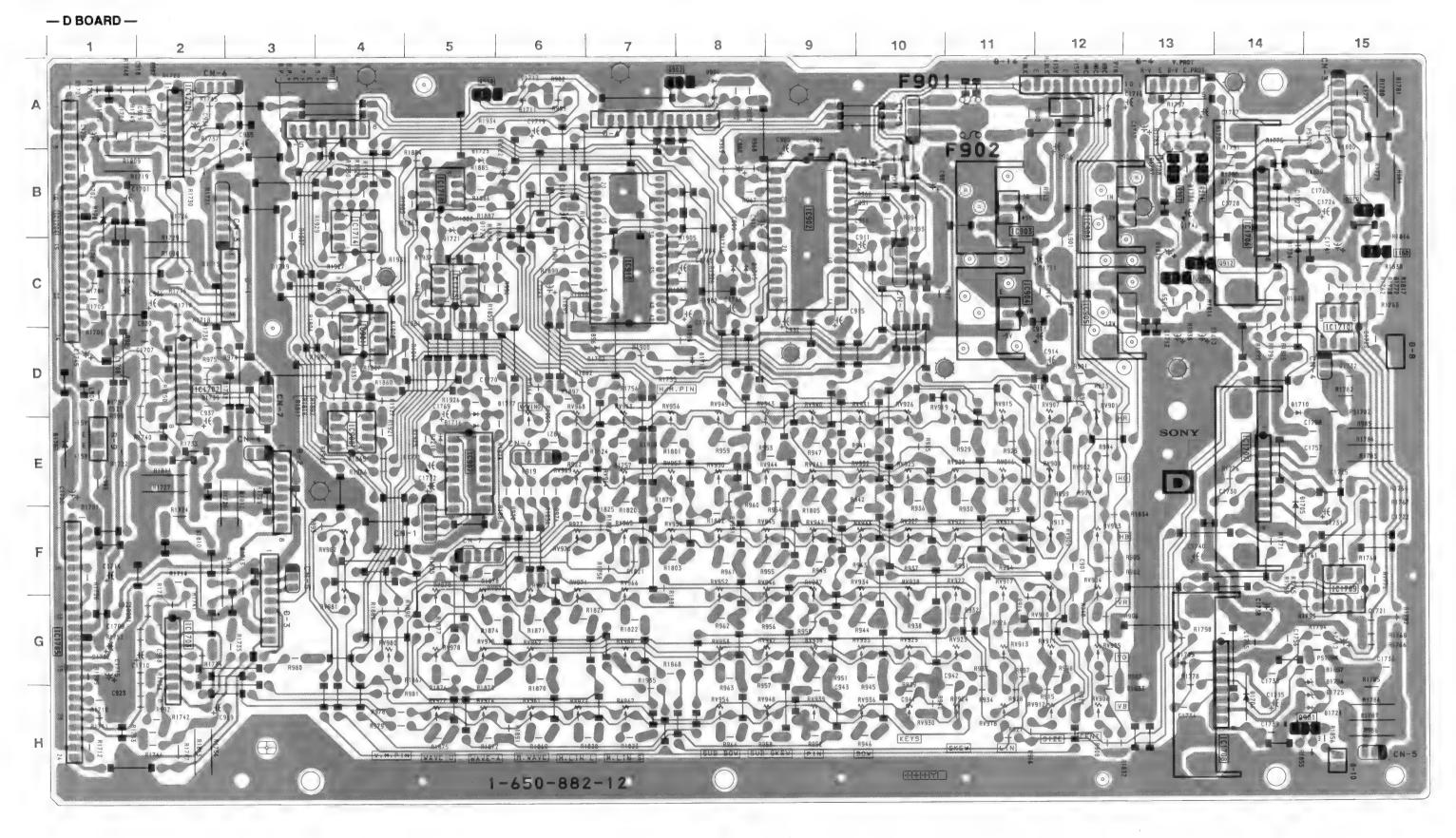
REGISTRATION, DEFLECTION, V-OUT, SUB-OUT

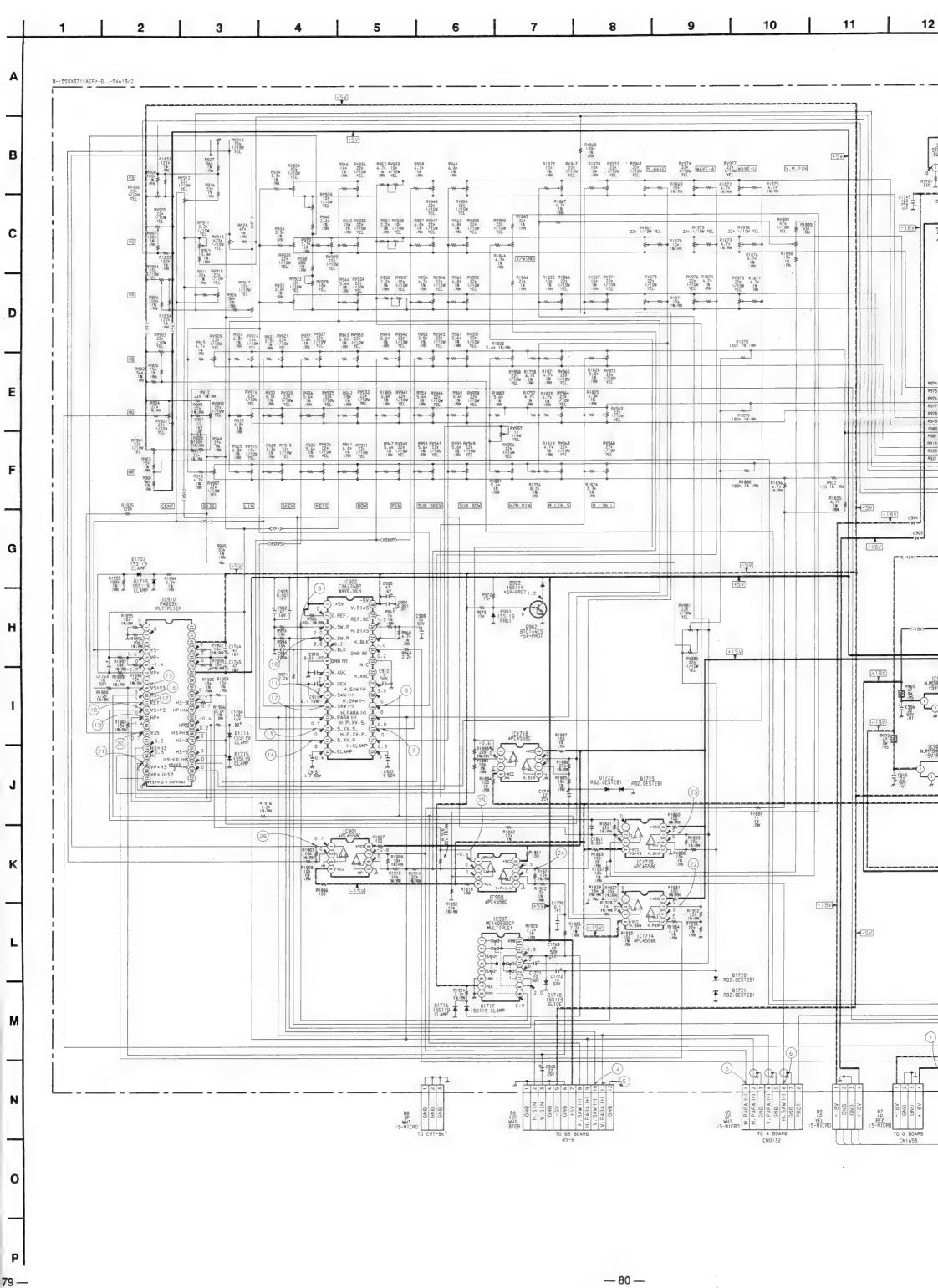
— D BOARD —

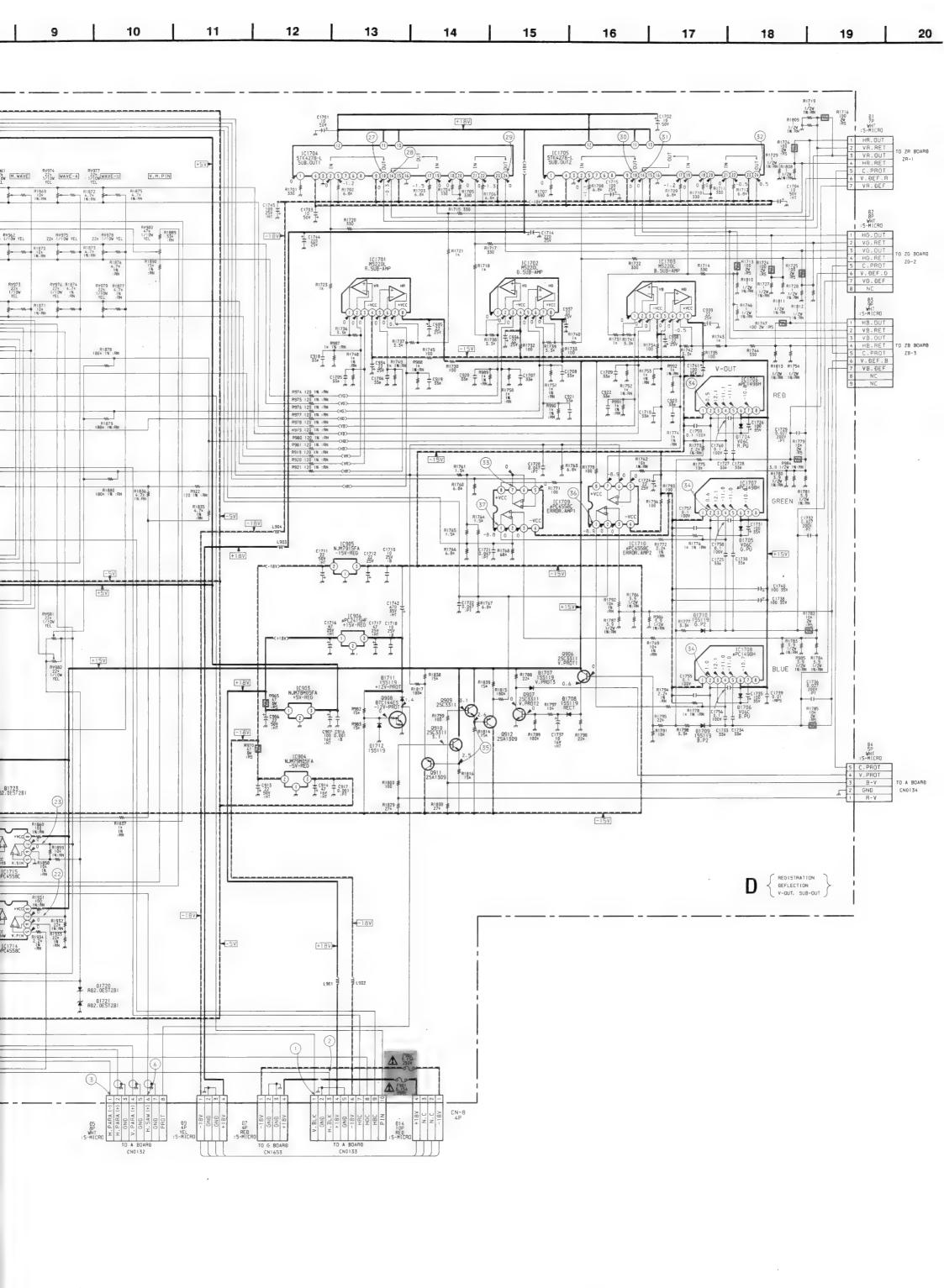
Г	IC		D1712	A-6	RV934	F-10
\vdash	10		D1713	D-8	RV935	G-10
	IC901	D-4	D1714	C-8	RV936	H-10
	IC902	B-9	D1715	C-8	RV937	F-9
1	IC903	B-11	D1716	E-5	RV938	G-9
П	IC904	C-11	D1717	D-5	RV939	H-9
1	IC905	C-12	D1718	E-5	RV940	D-9
	IC906	B-12	D1720	B-5	RV941	E-9
	1C907	E-5	D1721	B-5	RV942	F-9
	IC908	E-4	D1722	B-6	RV943	D-9
1	IC910	C-7	D1723	B-5	RV944	E-9
	IC1701	A-2			RV945	F-9
	IC1702	D-2	VARIA		RV946	F-9
П	IC1703	G-2	RESIS	TOH	RV947	G-9
1	IC1704	B-2	RV901	D-12	RV948	H-9
	IC1705	G-1	RV901	E-12	RV949	D-8
	IC1706	C-14	RV902	F-12	RV950	E-8
1	IC1707	E-14	RV903	F-12	RV951	F-8
	IC1708	H-14		G-12	RV952	F-8
1	IC1709	F-15	RV905 RV906	H-12	RV953	G-8
П	IC1710	D-15	RV905	D-12	RV954	H-8
	IC1714	B-4		E-12	RV956	D-7
	IC1715	C-5	RV908	F-12	RV957	E-7
1	IC1718	B-5	RV909		RV958	F-7
\perp	101710		RV910	G-12 G-12	RV959	D-6
1	TRANS	STOR	RV911 RV912	H-12	RV961	H-6
h			RV912	G-11	RV962	G-6
1	Q902	A-7	RV913	F-11	RV963	D-7
-	Q906	B-13	RV914	D-11	RV964	E-7
ı	Q907	B-13	RV916	E-11	RV965	F-7
1	Q908	A-5	RV916	F-12	RV966	F-7
	Q909	C-13	RV917	H-11	RV967	H-7
1	Q910	B-15	RV919	D-11	RV968	D-6
-	Q911	C-15		E-11	RV969	E-6
	Q912	C-14	RV920		RV970	F-6
T	DIO	DE	RV921	F-11 F-11	RV971	F-6
L		UL	RV922		RV972	H-6
	D901	A-8	RV923	G-11 H-11	RV973	F-6
	D902	A-8	RV924	H-11 E-10	RV974	H-5
	D1702	D-7	RV925	D-10	RV975	G-5
	D1704	C-14	RV926	F-10	RV976	F-5
- 1	D1705	F-14	RV927		RV977	H-5
	D1706	H-14	RV928	F-10	RV978	G-5
	D1707	A-13	RV929	G-10	RV979	F-5
	D1708	A-13	RV930	H-10	RV980	G-4
ı	D1709	G-13	RV931	D-10	RV981	G-4
- 1	D1710	D-14	RV932	E-10	RV982	F-4
	D1711	A-6	RV933	F-10	114302	1 -4
- 1	21111	,,,,			1	



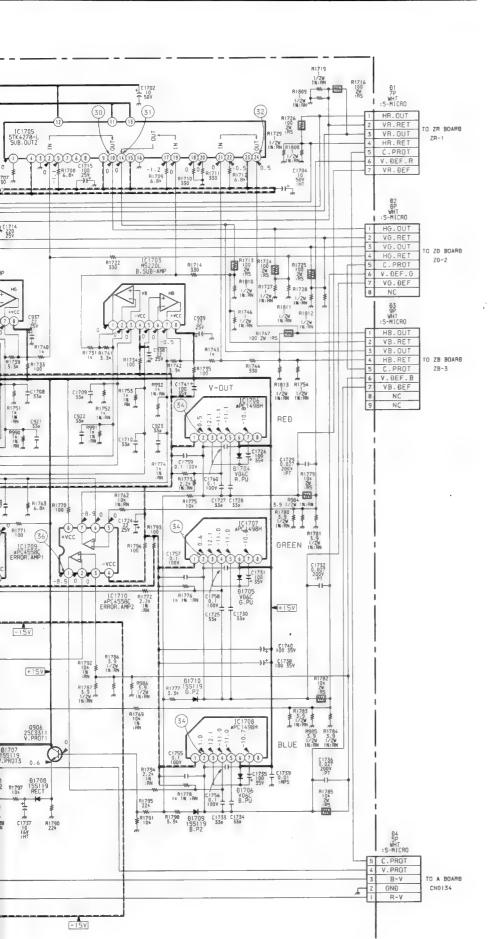






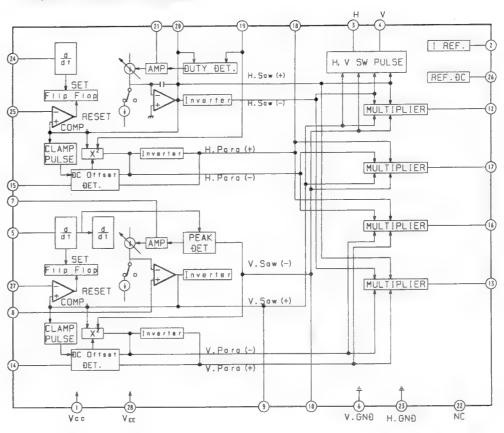




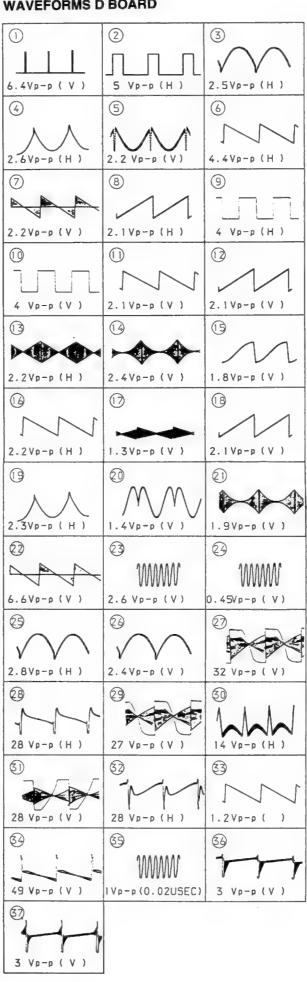


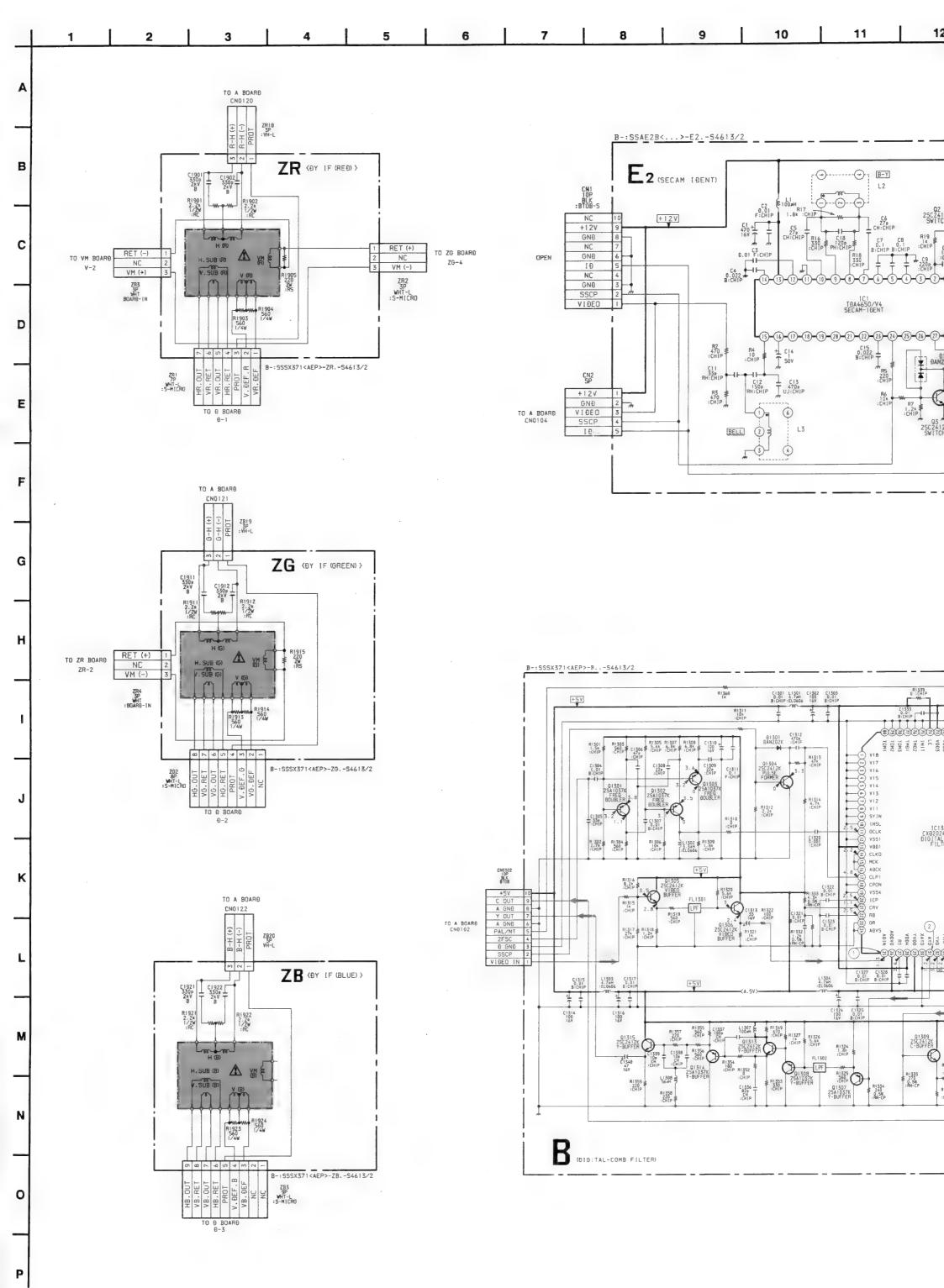
DEFLECTION V-OUT, SUB-OUT

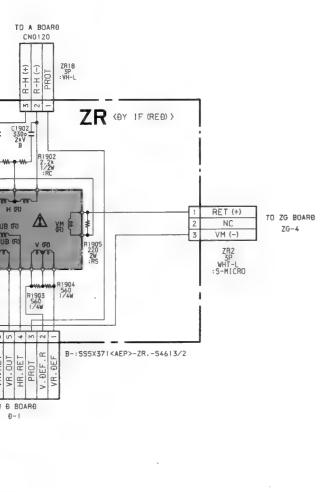
D BOARD IC902 CXA1268P

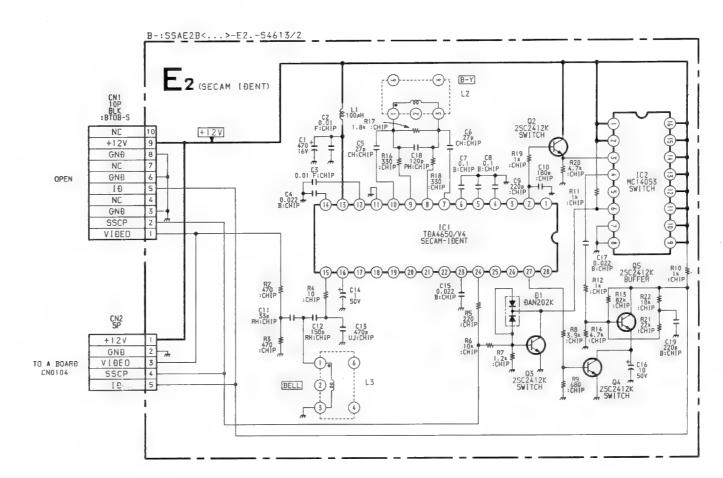


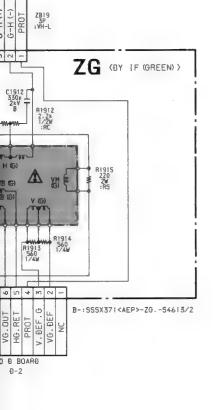
WAVEFORMS D BOARD

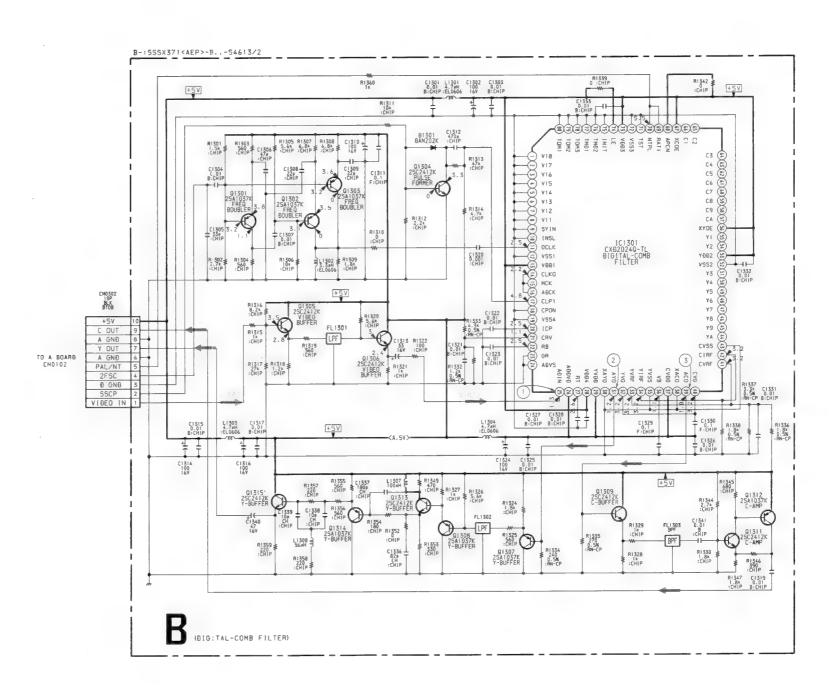




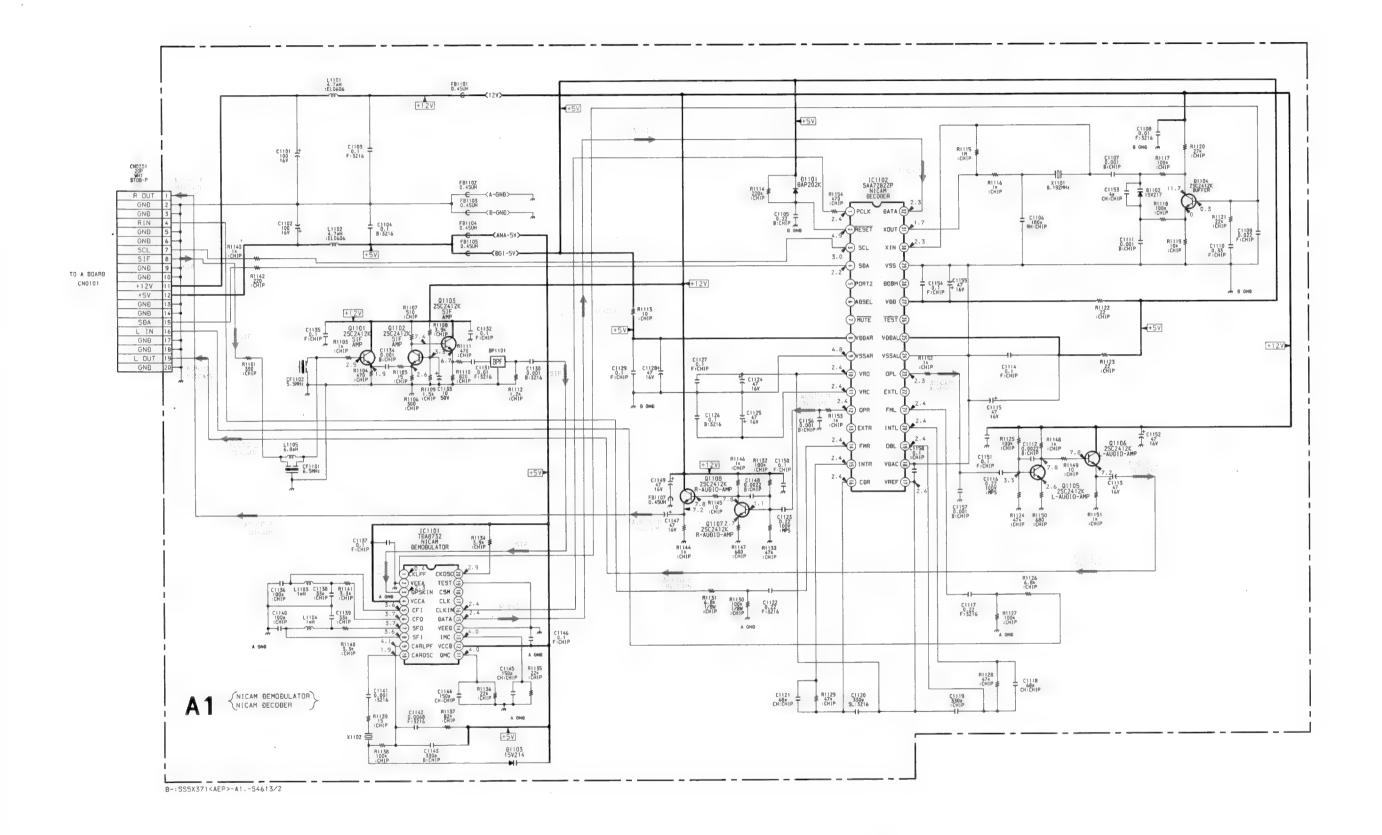








TO A BOARD



KP-S4613/2

KP-S4613/2





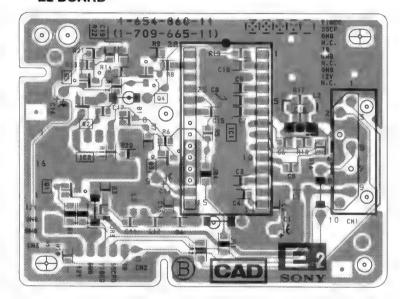




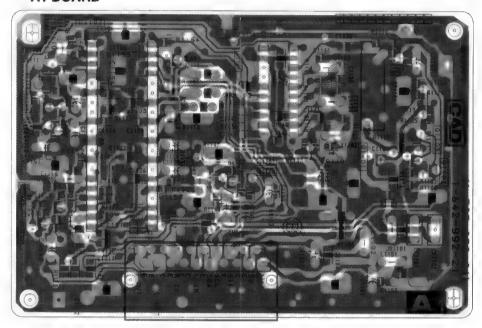




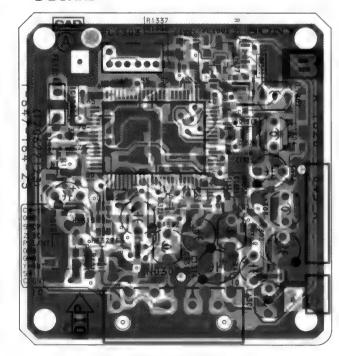
— E2 BOARD —

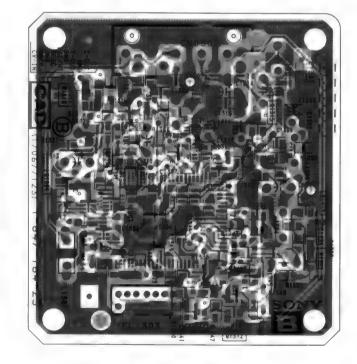


- A1 BOARD -



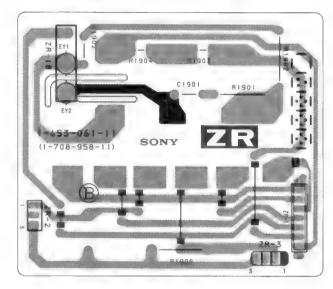
- B BOARD -



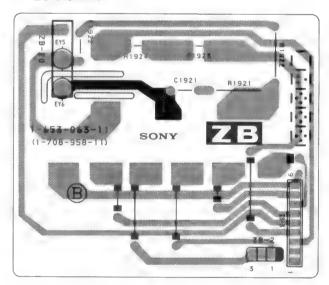


- Pattern from the side which enables seeing.
- : Pattern of the rear side.

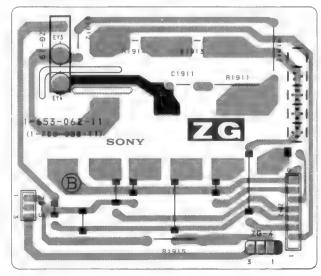
- ZR BOARD -

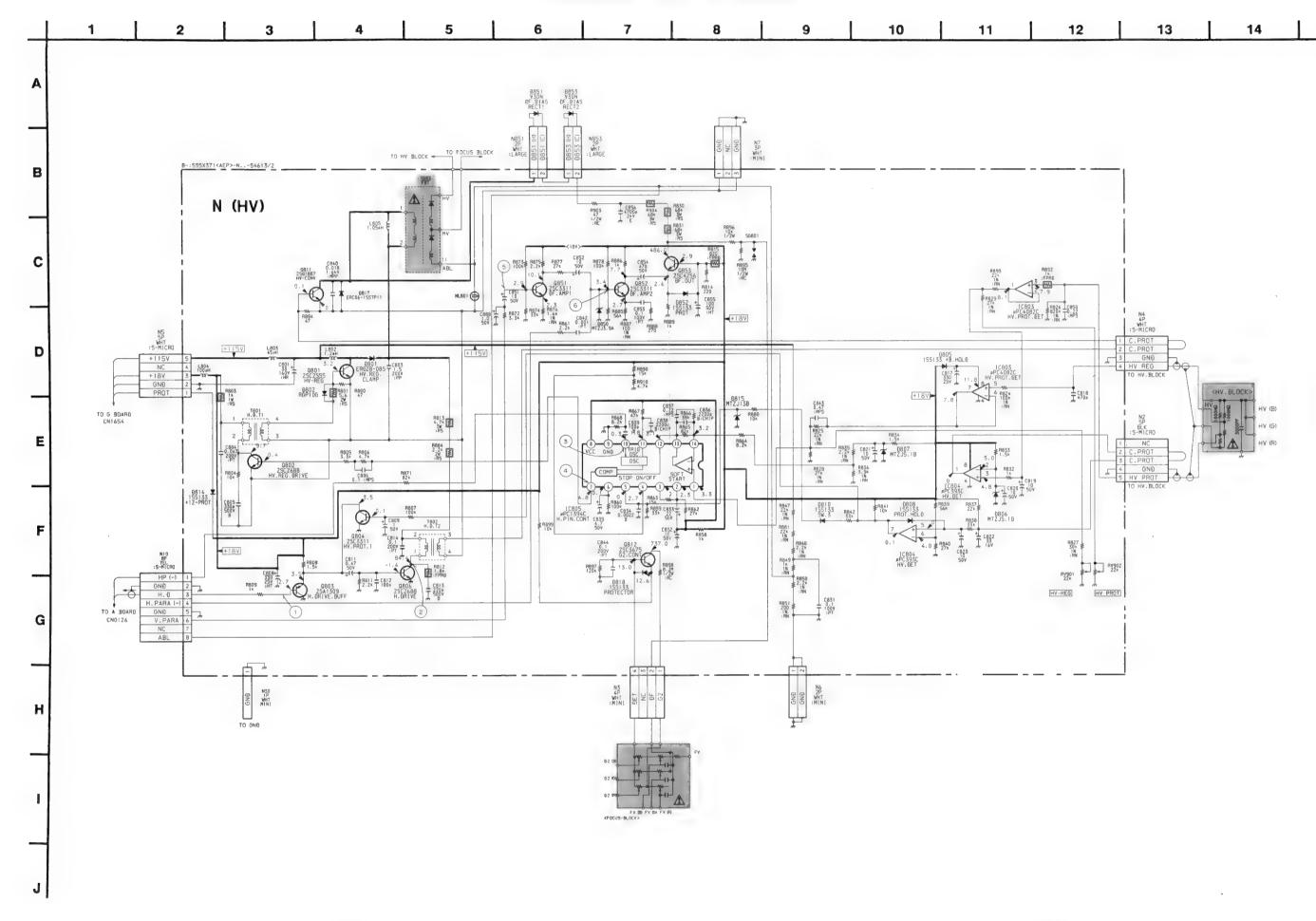


- ZB BOARD -



- ZG BOARD -

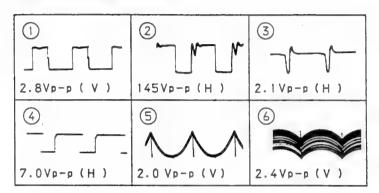




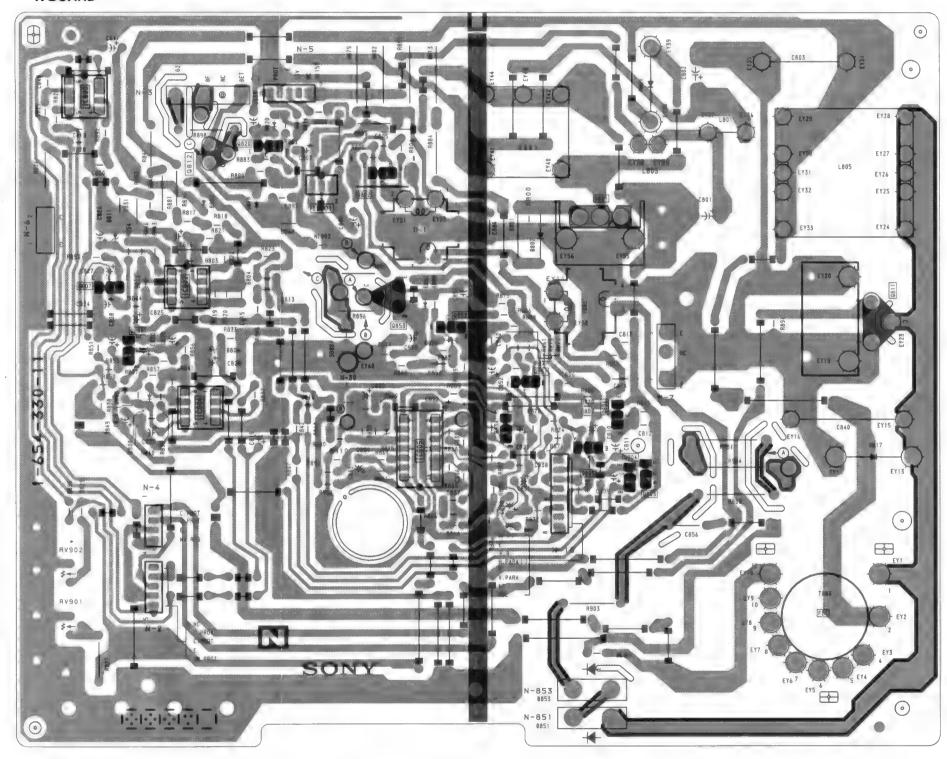
15



WAVEFORMS N BOARD



- N BOARD -

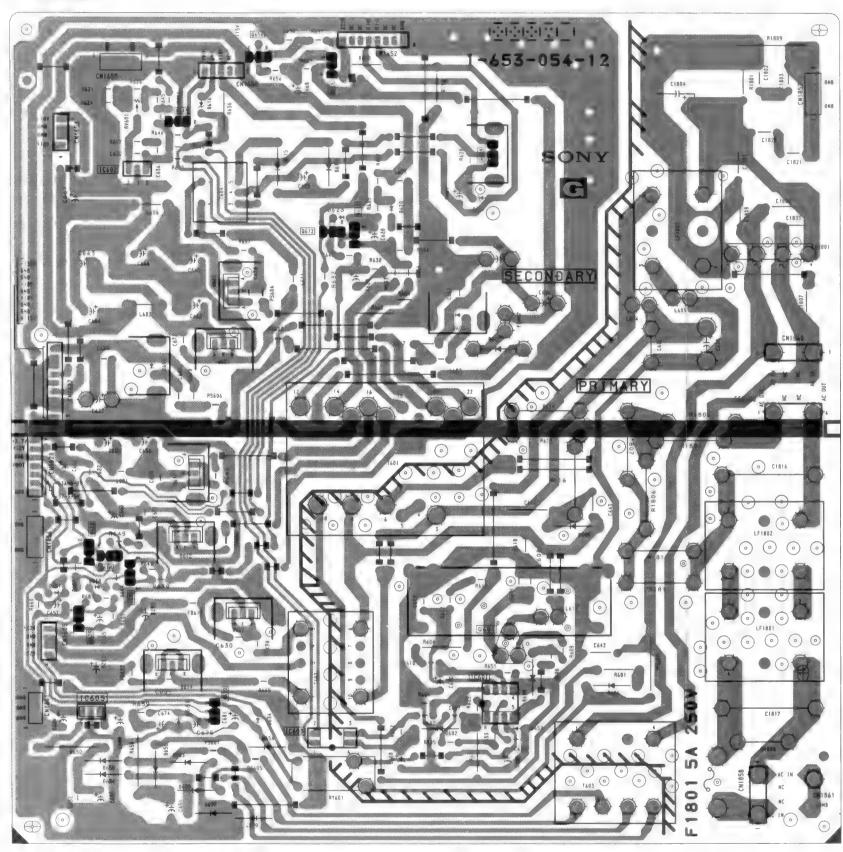




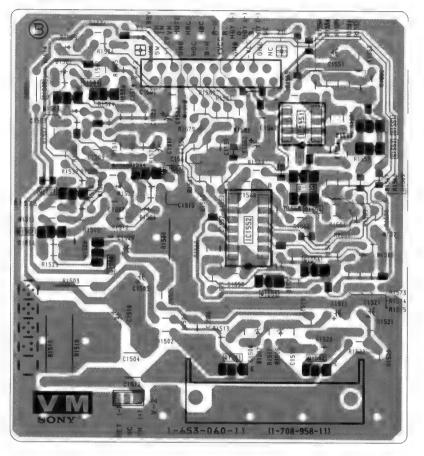




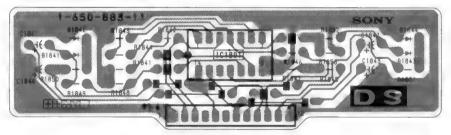
- G BOARD -



- VM BOARD -



- DS BOARD -



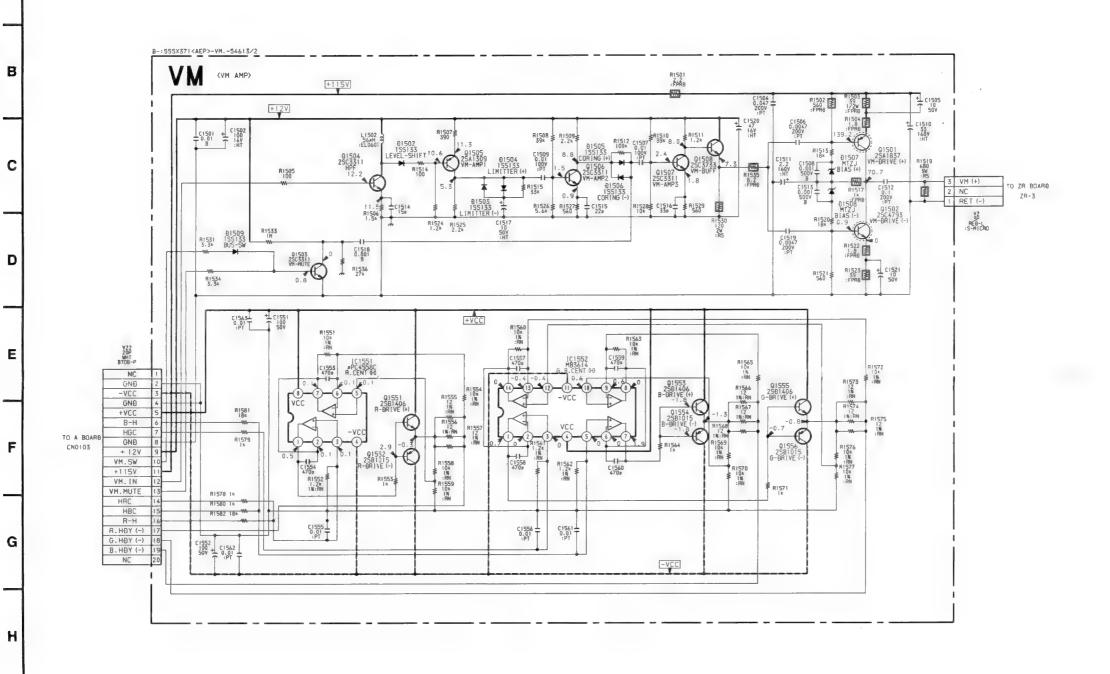
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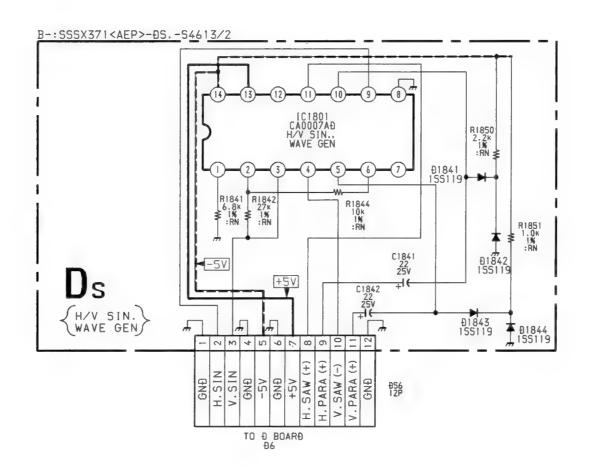
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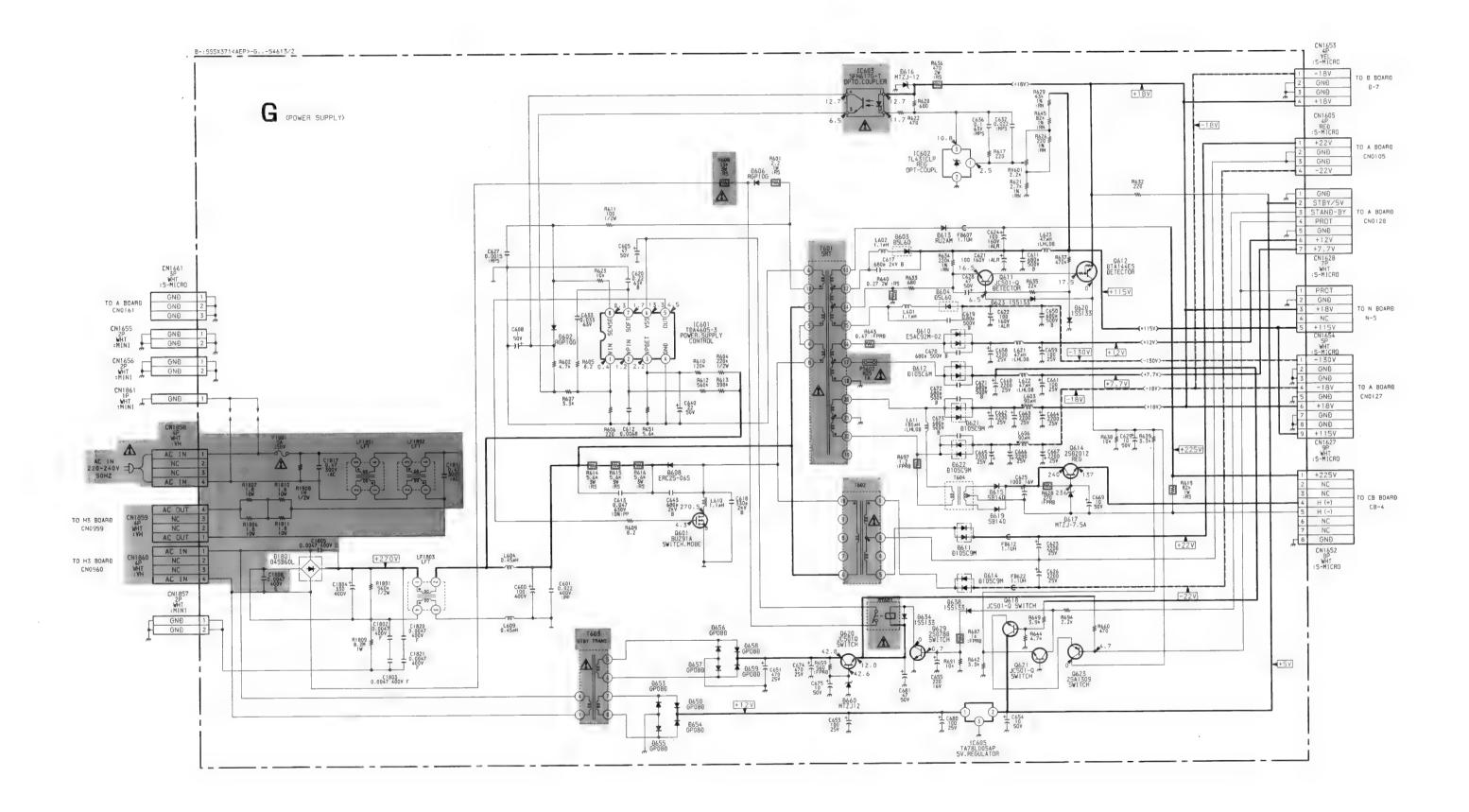
M

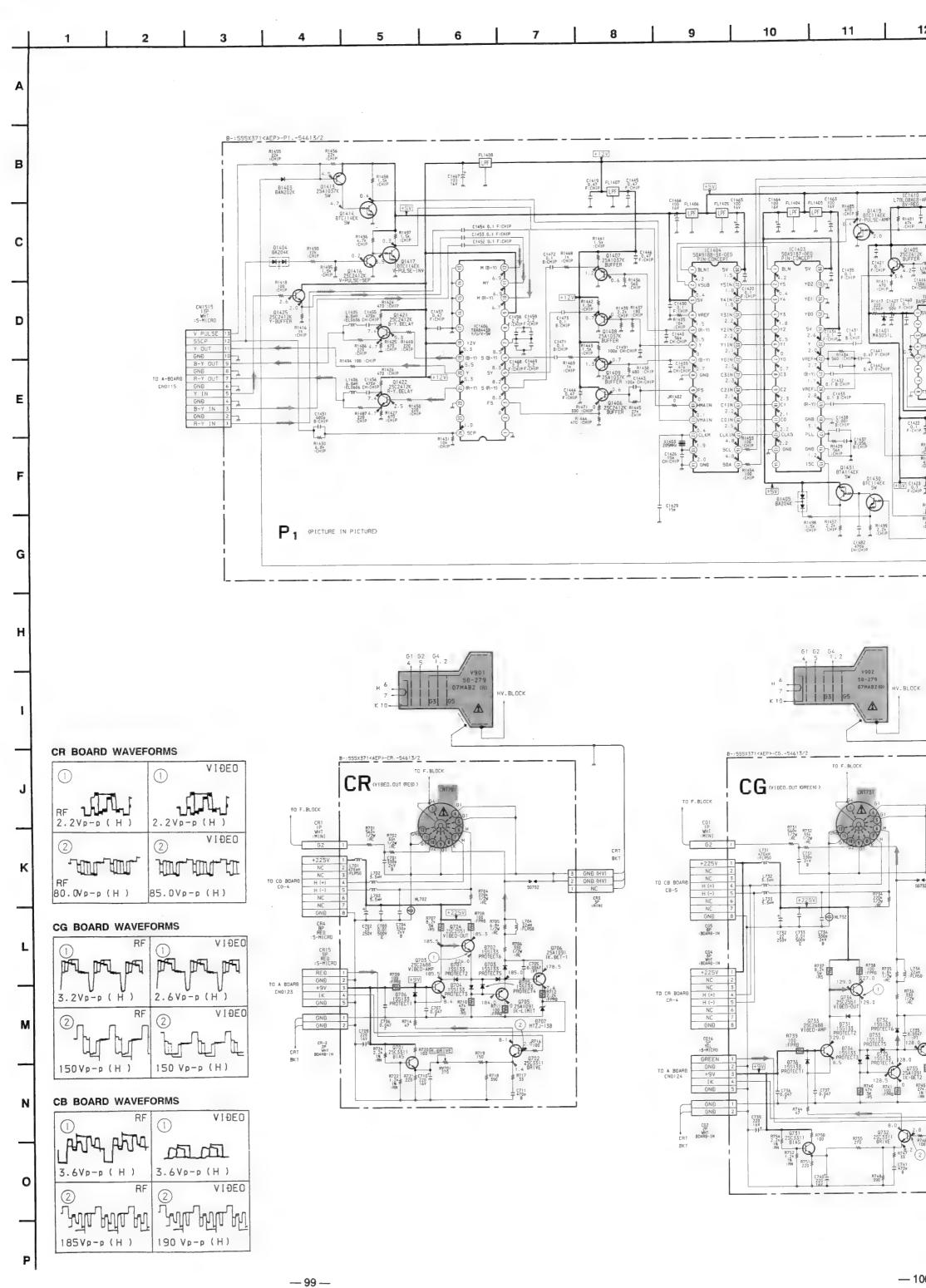
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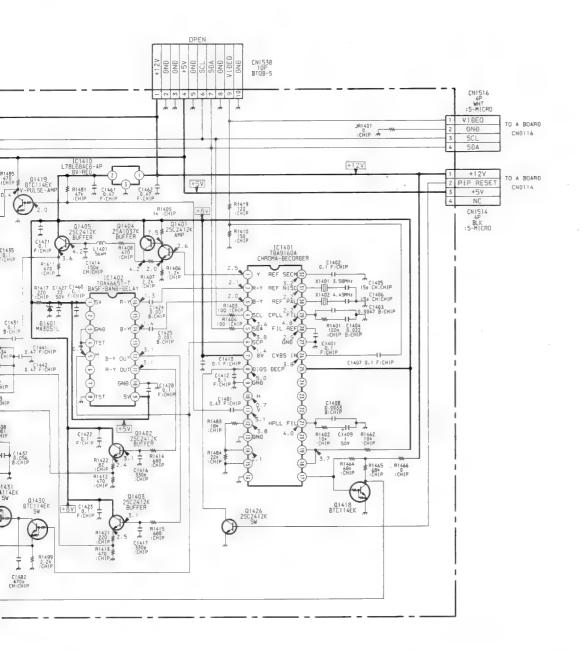


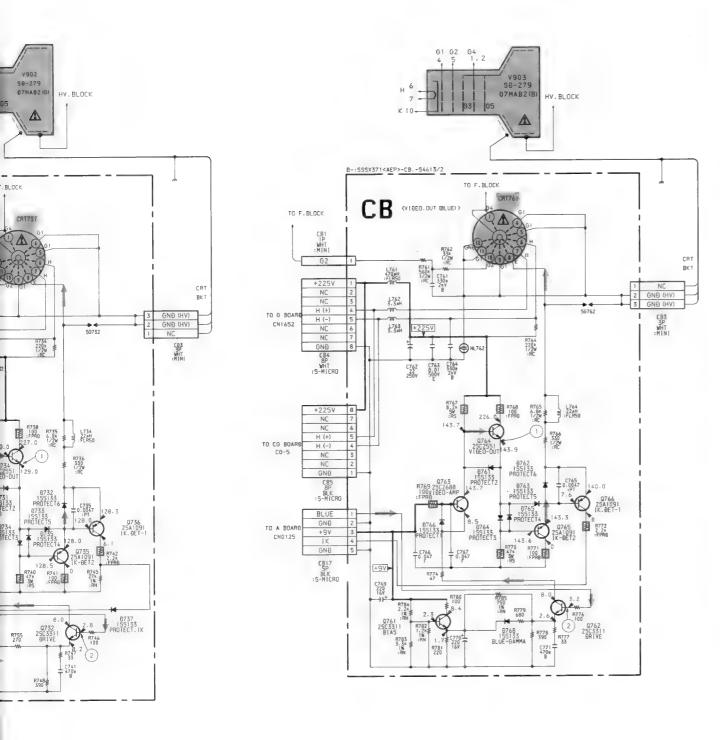






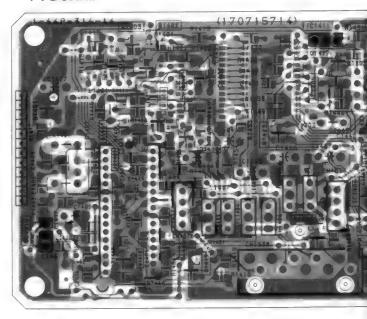


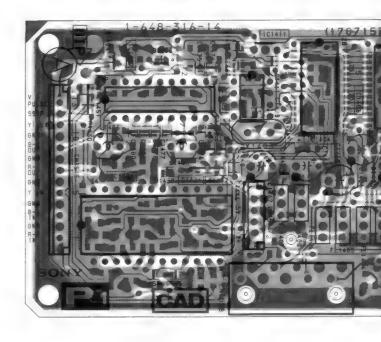




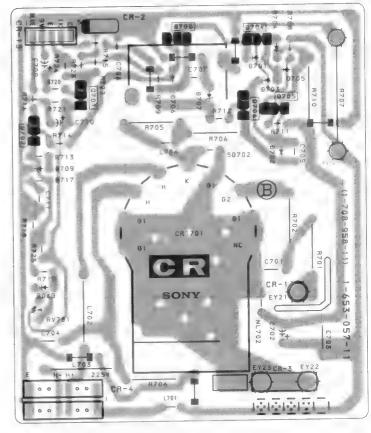


— P1 BOARD —





— CR BOARD —



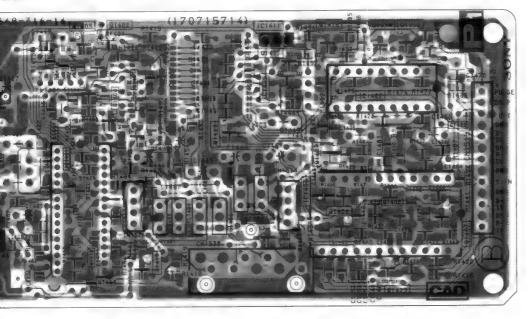


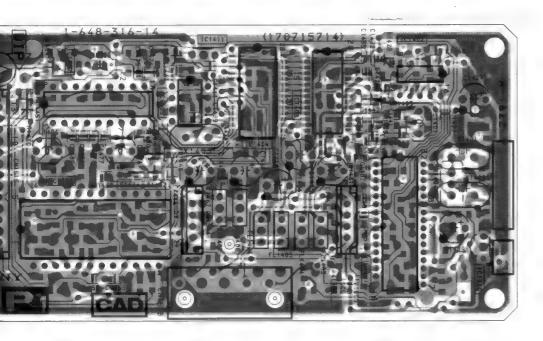






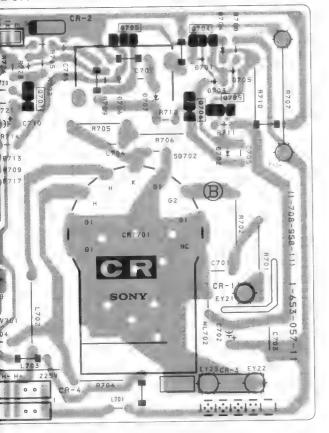
BOARD -



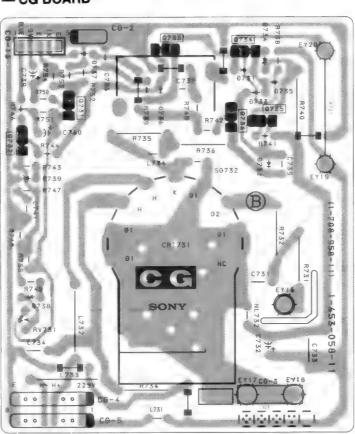


- Pattern from the side which enables seeing.
- : Pattern of the rear side.

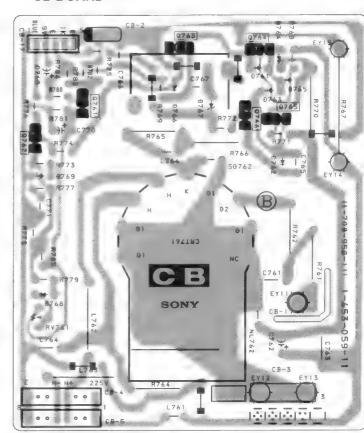
BOARD -

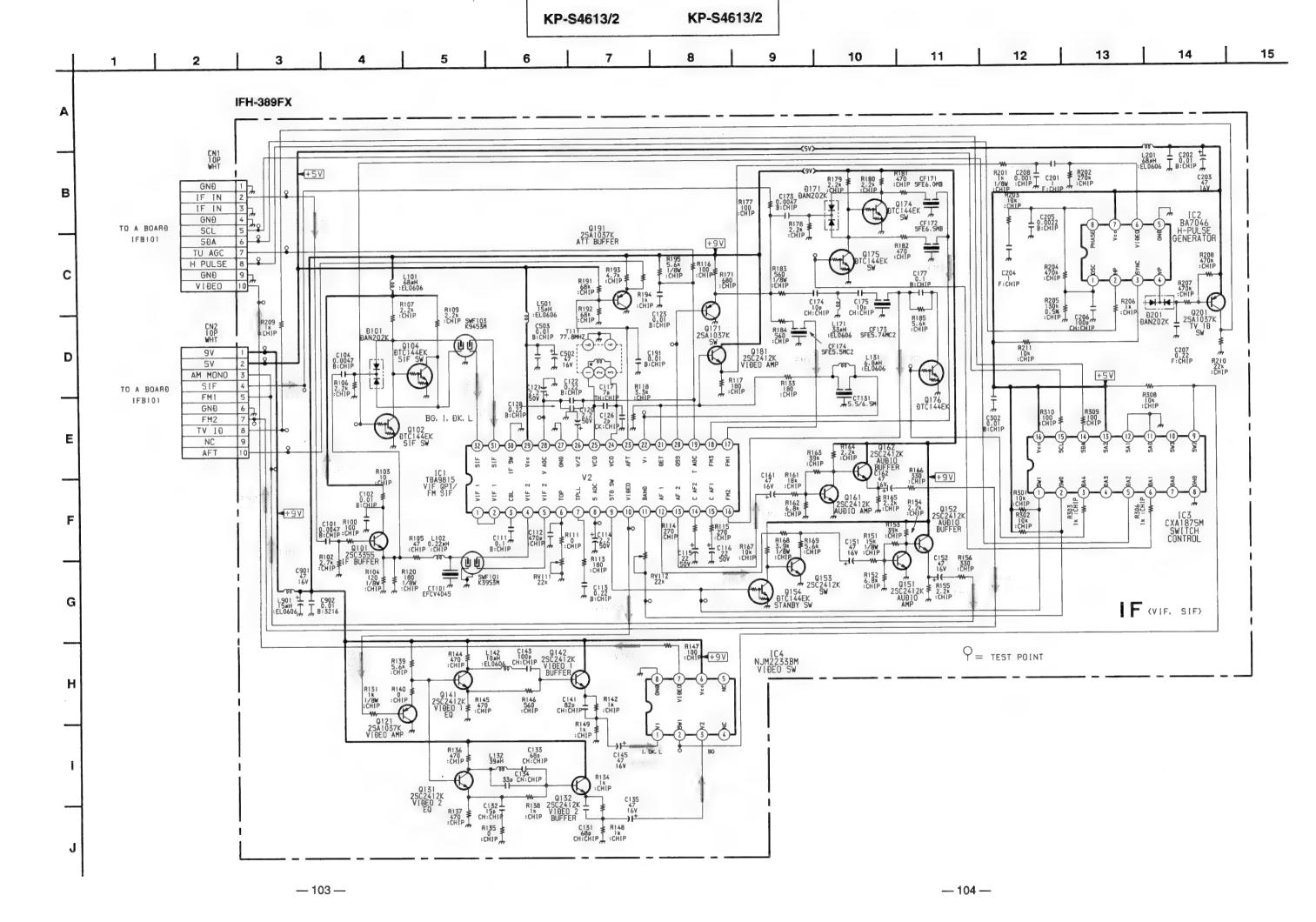


- CG BOARD -

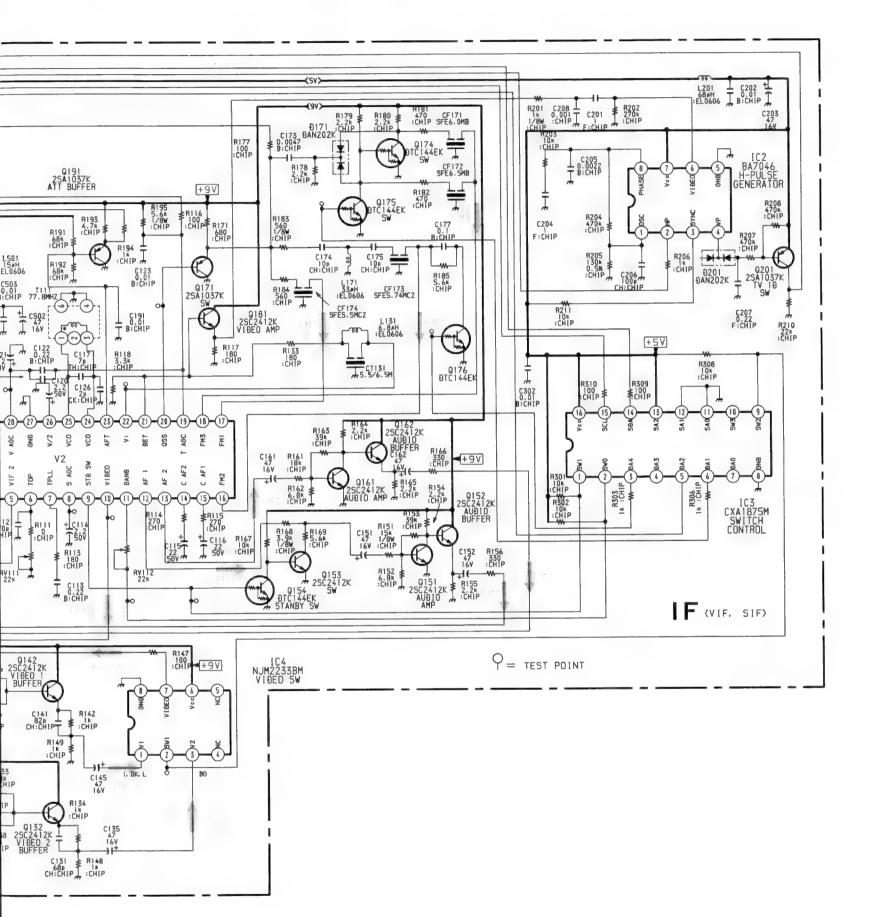


— CB BOARD —





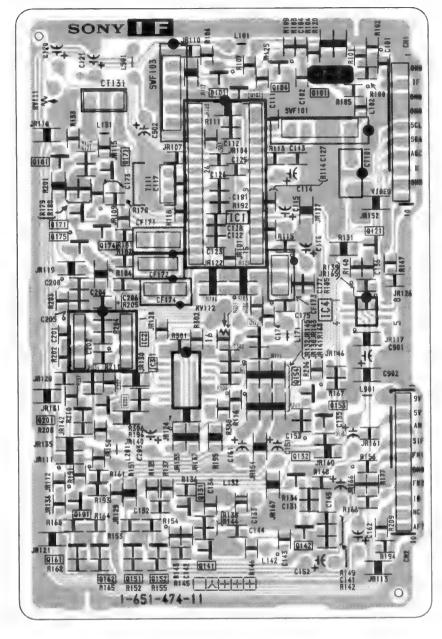
7 8 9 10 11 12 13 14 15



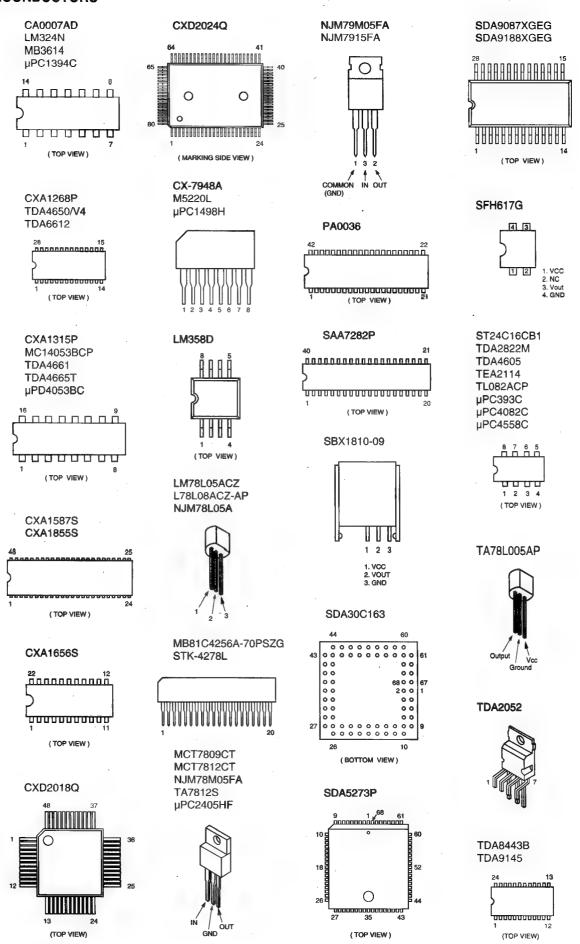
— 104 —



-IF BOARD-



5-4. SEMICONDUCTORS

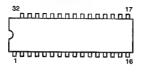


TDA8732

<u>_____</u>

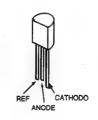
(TOP VIEW)

TDA9160A

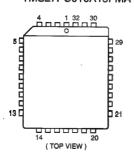


(TOP VIEW)

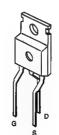
TL431CLP



TMS27PC010A15FMA



BUZ91A-E3155



DTA124EK DTA144EK DTC114EK DTC124EK

2SA1037K 2SA1162-G 2SC2412K 2SC1623-L5L6 DTC144EK 2SC2413K



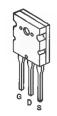
DTA144ES DTC144ES



JC501 2SA1013-O 2SA1091-Q 2SA1837 2SC2551-O 2SD788-5



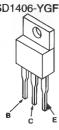
2SA1301-O



2SA1309A-Q 2SA1175-HFE 2SC2785-HFE 2SC3311A-QRS



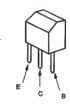
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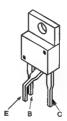
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2SC3733



2SC4256CB 2SC4632-CB7



2SC4793



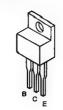
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2SD1887-CA



2SD2012



DAN202K



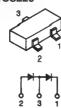


DAP202K





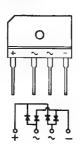
DA204K **1SS226**

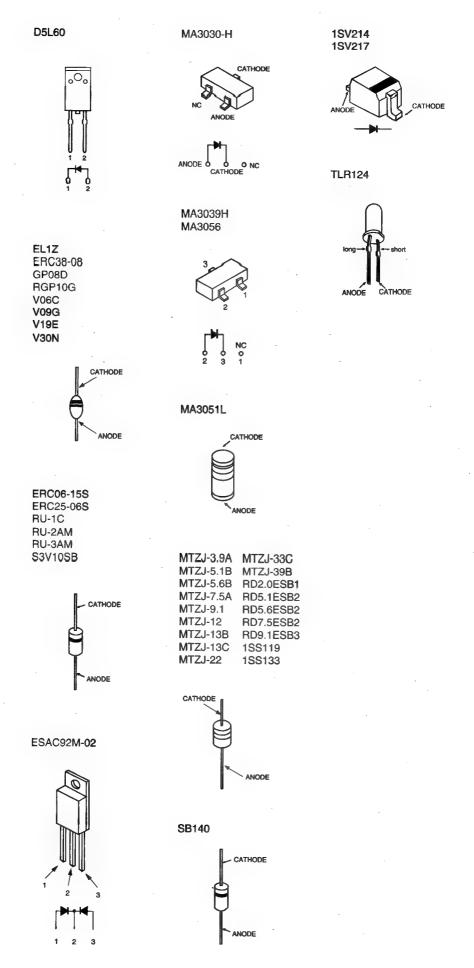


D10SC6M D10SC9M



D4SB60L





SECTION 6

EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they
 are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked /!\ are critical for safety.

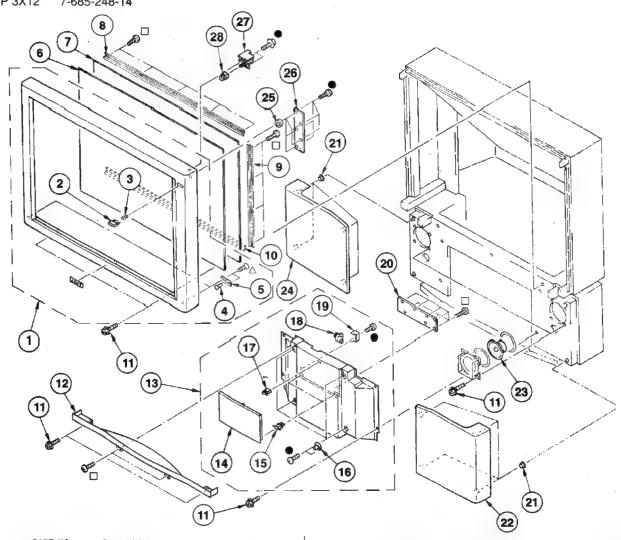
Replace only with the part number specified.

6-1. CONTROL PANEL

●: BVTP 3X12 7-685-648-79

: BVTP 4X12 7-685-661-79

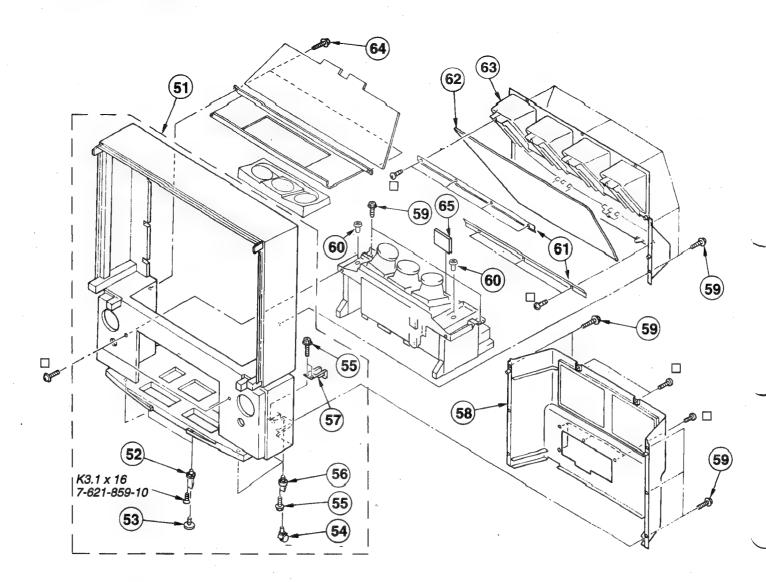
△: KTP 3X12 7-685-248-14



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	X-4030-609-1	FRAME ASSY, SCREEN	2-5	15	3-703-035-12	SHAFT, LID	
2	4-037-635-01	BUTTON, POWER		16	4-843-806-00	STRIKE	
3	3-308-717-00	SPRING, COMPRESSION		17	4-392-036-01	CATCHER, PUSH	
4	4-838-452-00	STRIKE		18	3-721-204-21	DAMPER	
5	4-838-453-00	SUPPORT		19	4-397-047-01	HOLDER, DAMPER	
6	4-037-360-11	PLATE (L), DIFFUSION		20	*1-644-711-11	H2 BOARD	
7	4-037-359-11	PLATE (F), DIFFUSION		21	4-838-438-00	LATCH	
8 .	4-036-091-51	HOLDER (L) SCREEN		22	X-4030-569-1	GRILLE (R) ASSY,	SPEAKER
9	4-036-092-21	HOLDER (S) SCREEN		23	1-504-145-11	SPEAKER (12CM)	
10	4-036-091-21	HOLDER (S) SCREEN		24	X-4030-570-1	GRILLE (L) ASSY,	SPEAKER
11	4-378-522-31	SCREW, TAPPING, HEXAGON HEAL)	25	7-688-000-29	WASHER 10 BLOCK	
12	4-037-629-01	ESCUTCHEON, FRONT, FINAL		26	*1-644-710-11	H1 BOARD	
13	X-4030-605-1	PANEL ASSY, CONTROL	14-19	27	*1-644-712-11	H3 BOARD	
14	4-037-632-01	LID, FINAL CONTROL		28	4-037-636-01	ADAPTOR, BUTTON	

6-2. CABINET

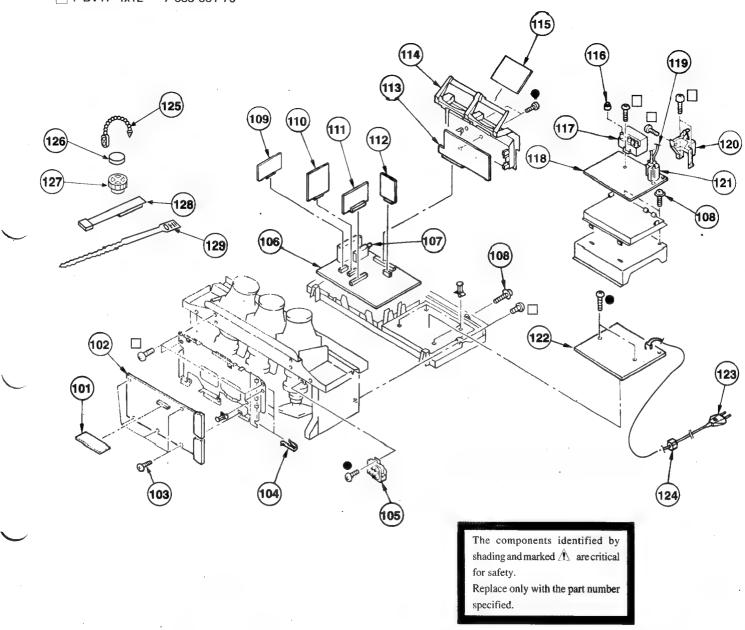
: BVTP 4X12 7-685-661-79



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51 52 53 54 55 56 57	X-4030-603-1 4-037-473-01 4-037-472-01 4-032-343-11 4-378-522-11 4-030-850-01 4-037-639-01	CABINET ASSY NUT, FITTING LEG, ADJUSTABLE CASTER SCREW, TAPPING, HEXAGON HEAD SOCKET, CASTER BRACKET, AC CORD	52-57	58 59 60 61 62 63 64 65	X-4030-604-3 4-378-522-31 4-202-887-01 4-037-351-01 4-037-354-01 4-036-462-01 4-378-522-21 A-1642-141-A	COVER ASSY, BACK SCREW, TAPPING, HEXAGON HE RIVET ALUMINIUM HOLDER MIRROR MIRROR (46), REFLECTION COVER (46"), MIRROR SCREW, TAPPING, HEXAGON HE EZ BOARD, COMPLETE	AD

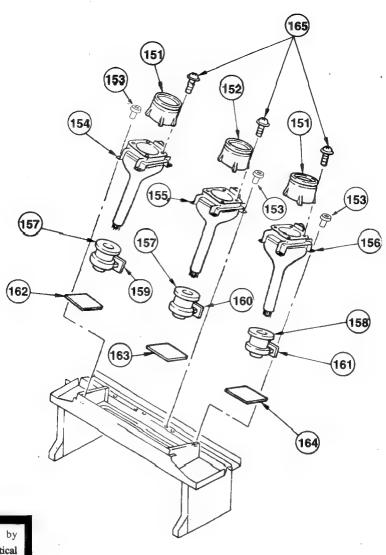
6-3. CHASSIS

●: BVTP 3x12 7-685-648-79
□: BVTP 4x12 7-685-661-79



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
101 102 103 104 105 106 107 108 109 110 111 112 113 114	*1-650-883-12 *A-1640-159-A 4-302-428-03 *4-393-401-01 *1-241-744-11 *A-1632-207-A 1-693-185-11 3-701-810-91 *A-1630-303-A *A-1644-054-A *A-1635-029-A *A-1620-049-A *A-1388-158-A *4-037-620-01 -*A-1622-006-A	DS BOARD D BOARD, COMPLETE SCREW (WASHER HEAD) SPRING, TRANSISTOR RESISTOR ASSY (HIGH- A BOARD, COMPLETE TUNER (UV916H) SCREW, TERMINAL A1 BOARD, COMPLETE VM BOARD, COMPLETE M2 BOARD, COMPLETE J BOARD, COMPLETE J BOARD, COMPLETE BRACKET, J P1 BOARD, COMPLETE	(+P 3X12)	116 118 119 120 121 A 122 123 A	4-373-137-01 1-453-108-11 *A-1678-079-A 1-559-865-41 4-034-482-01 1-453-121-11 *A-1637-002-A 1-765-286-11 4-389-201-11 4-308-870-00 1-452-032-00 1-452-094-00 X-4387-214-1 3-701-007-00	CAP (Z), RUBBER DC BLOCK, HIGH-VOLTAG N BOARD, COMPLETE LEAD ASSY, HIGH-VOLTAGE COVER, FBT TRANSFORMER ASSY, FLYBACK G BOARD, COMPLETE CORD, POWER HOLDER, AC CORD CLIP, LEAD WIRE MAGNET, DISK; 10MM Ø MAGNET, ROTATABLE DISK: 1 PERMALLOY ASSY, CORRECTIO BAND, BINDING	(NX-2630B4)

6-4. PICTURE TUBE



The components identified by shading and marked $\hat{\Delta}$ are critical for safety.

Replace only with the part number specified.

REF NO	PART NO	DESCRIPTION REMARK	REF NO	PART NO	DESCRIPTION	REMARK
151 152 153 54 A 155 A 156 A 157 A	4-034-057-01 4-034-057-11 4-202-887-01 8-736-074-05 8-736-072-05 8-736-073-05 8-451-441-11 8-451-441-21	LENS (LINNIT) LENS (LINNIT) RIVET ALMINIUM PICTURE TUBE (SD-279) (07MAB2 (R)) PICTURE TUBE (SD-279) (07MAB2 (G)) PICTURE TUBE (SD-279) (07MAB2 (B)) DEFLECTION YOKE (Y829PA (R,G)) DEFLECTION YOKE (Y829PAN2 (B))	159 160 161 162 163 164 165	*1-653-061-11 *1-653-062-11 *1-653-063-11 *A-1638-049-A *A-1638-051-A *A-1638-050-A 3-701-810-91	ZR BOARD ZG BOARD ZB BOARD CR BOARD, COMPLETE CG BOARD, COMPLETE CB BOARD, COMPLETE SCREW, TERMINAL	

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked : are critical for safety. Replace only with the part number

specified.

JR081

1-216-296-00 METAL GLAZE

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

MF: mF, PF: mmF

MMH: mH, µH: mH

RESISTORS

- All resistors are in ohms









50V

,			• F: nonflammab				10 0		
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>l</u>		REMARK
	*1-644-710-11	H1 BOARD		JR082	1-216-296-00	METAL GLAZE	0 5%	1/8W	
		GUIDE, LIGHT BRACKET (B), LIGHT GUIDE		R082 R083 R084 R085 R086	1-249-429-11 1-249-425-11 1-249-421-11 1-216-053-00 1-216-053-00	CARBON CARBON METAL GLAZE	10K 5% 4.7K 5% 2.2K 5% 1.5K 5% 1.5K 5%	1/4W 1/4W 1/4W 1/10 1/10	A .
	< CON	NECTOR >			< SWI	TCH >			
CN0732	*1-564-522-11	PLUG, CONNECTOR 7P							
	< DIC	DDE >		S082 S083 S084	1-571-731-11	SWITCH, TACTII SWITCH, TACTII SWITCH, TACTII	ŭ ,		
D092 D093 D094	8-719-812-41	DIODE TLR124 DIODE TLR124 DIODE TLR124		******	******			*****	******
2001	< IC				*1-644-712-11	H3 BOARD			
IC091	8-741-810-09	IC SBX1810-09			< CON	NECTOR >			
	< RES	EISTOR >		CN0959 A	*1-580-689-11 *1-580-689-11	PIN, CONNECTOR	R (PC BOARI	O) 4P	Z mil
R091	1-249-413-11	CARBON 470 5%	1/4W	CNOSCO			(PC BOARI) 4F 3	
*****	********	************	******		< SWI				
	*1-644-711-11	H2 BOARD			**************************************			***	
	< CAF	PACITOR >			*A-1388-158-A	J BOARD, COMP	LETE		
C083 C084	1-101-005-00 1-101-005-00		50V 50V		< CAP	ACITOR >			
	< CON	NECTOR >		C250		CERAMIC CHIP		5%	50V
CN0808 CN0819 CN0831	*1-564-518-11	PLUG, CONNECTOR 10P PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P		C281 C291 C292 C293	1-124-442-00 1-101-005-00 1-101-005-00 1-102-125-00	CERAMIC CERAMIC	330MF 0.022MF 0.022MF 0.0047MF	20%	6.3V 50V 50V 50V
	< JAC	7		C294					
				C295	1-102-125-00 1-163-009-11	CERAMIC CHIP	0.0047MF 0.001MF	10% 10%	50V 50V
J081 J082	1-565-931-11	TERMINAL BLOCK, S 3P JACK		C296 C901		CERAMIC CHIP		10% 10%	50V 50V
		••••		C902		CERAMIC CHIP		10%	50V
	< COI	ги >		C904	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
L081 L082	1-408-409-00 1-408-409-00			C905 C906	1-163-133-00 1-101-004-00	CERAMIC CHIP	470PF 0.01MF	5%	50V 50V
2002				C907	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
	< RES	SISTOR >		C908	1-163-133-00	CERAMIC CHIP	470PF	5%	50 V

C909

1-101-004-00 CERAMIC

KP-S46
J
REF.NO.
C910 C911 C912 C913
C914 C915 C916 C917

J				/							
REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	1		REMA	<u>IRK</u>
C910 C911 C912 C913	1-163-017-00 1-163-133-00	CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 470PF CERAMIC CHIP 470PF	10% 10% 5% 5%	50V 50V 50V 50V	D922 D923 D924 D925 D926	8-719-923-60 8-719-923-60 8-719-923-60		1A 1A 1A			
C914 C915 C916 C917 C918	1-163-121-00 1-163-017-00 1-163-017-00	CERAMIC CHIP 150PF CERAMIC CHIP 150PF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 470PF	5% 5% 10% 10% 5%	50V 50V 50V 50V 50V	D927 D928		DIODE MTZJ-9. DIODE MTZJ-9.				
C919 C920 C921 C922 C923	1-163-017-00		5% 10% 10% 20%	50V 50V 50V 16V	J291 J901 J903 J904	1-536-996-21 1-695-296-11 1-695-549-11 1-695-296-11	TERMINAL BLOC SOCKET, PIN 2 TERMINAL BLOC	K, S 1P K, S	UT/OUT	PUT	
C924 C925 C926 C927 C928	1-124-477-11 1-124-477-11 1-164-346-11 1-124-477-11 1-124-477-11	ELECT 47MF CERAMIC CHIP 1MF ELECT 47MF	20% 20% 20% 20%	16V 16V 16V 16V 16V	J905 J906 J907	1-695-549-11 1-695-293-11 1-695-296-11 1-695-549-11 1-695-293-11	SOCKET 21P; TERMINAL BLOC SOCKET, PIN 2 SOCKET 21P;	J905 K, S 1P			
C929 C930 C931 C932 C933	1-124-477-11 1-124-477-11 1-164-346-11 1-164-346-11 1-124-477-11	ELECT 47MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	20% 20% 20%	16V 16V 16V 16V 16V	L291 L292 L294 L295	1-402-711-11 1-402-711-11 1-402-711-11	INDUCTOR, WID INDUCTOR, WID INDUCTOR, WID INDUCTOR, WID	EBAND EBAND			
C934 C935 C936 C937 C938		ELECT 47MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	20% 20% 20%	16V 16V 16V 16V 16V	Q281 Q282 Q283	8-729-920-74 8-729-920-74		C2412K	-QR		
	< CO1	NNECTOR >				< RES	SISTOR >				
CN1209 CN1210 CN1240	*1-564-522-11 *1-564-519-11	CONNECTOR, BOARD TO BOAP PLUG, CONNECTOR 7P PLUG, CONNECTOR 4P	ARD 50P		JR201 JR901 JR905 JR909 JR910	1-216-296-00 1-216-295-91 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5% 5%	1/8W 1/10W 1/8W 1/8W 1/8W	
D201		DIODE MTZJ-22			JR911	1-216-296-00		0	5%	1/8W	
D202 D203 D204 D901	8-719-924-11 8-719-924-11 8-719-924-11	DIODE MTZJ-22 DIODE MTZJ-22			JR915 JR917 JR918 JR921	1-216-295-91 1-216-296-00 1-216-295-91	METAL GLAZE	0 0 0	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W	
D902 D903 D904 D905 D906	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			JR923 JR924 JR926 JR927 JR928	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/8W	
D907 D908 D909 D910 D911	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			JR935 JR939 JR940 JR942 JR944	1-216-295-91 1-216-295-91 1-216-171-00	METAL GLAZE	0 0 0 75	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/8W 1/10W	
D912 D913 D914 D915 D916	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			JR946 JR947 JR952 JR954	1-216-296-00 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5%	1/8W 1/10W 1/8W 1/10W	
D917 D918 D919 D920 D921	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			R283 R284 R286 R287 R288	1-216-073-00 1-216-097-00 1-216-216-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 100K 5.6K 5.6K	5%	1/10W 1/10W 1/10W 1/8W 1/8W	

U	



REF.NO.	PART NO.	DESCRIPTION	4		REMARK	REF.NO.	PART NO.	DESCRIPTION	N -		REMARK
R289 R291 R292 R901 R902	1-216-055-00 1-249-413-11 1-249-413-11 1-216-039-00 1-216-039-00	CARBON CARBON METAL GLAZE	1.8K 470 470 390 390	5% 5% 5% 5% 5%	1/10W 1/4W 1/4W 1/10W 1/10W	R961 R965 R966 R967 R990	1-216-071-00 1-216-178-00 1-216-178-00 1-216-178-00 1-216-053-00		8.2K 5% 150 5% 150 5% 150 5% 1.5K 5%	1/10W 1/8W 1/8W 1/8W 1/10W	
R903 R904 R905 R906 R907	1-216-113-00 1-216-113-00 1-216-188-00 1-216-039-00 1-216-178-00	METAL GLAZE METAL GLAZE METAL GLAZE	470K 470K 390 390 150	5% 5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/8W	R991 R992 R993 R994 R995	1-216-053-00 1-216-053-00 1-216-053-00 1-216-053-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 5% 1.5K 5% 1.5K 5% 1.5K 5% 1.5K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R908 R909 R910 R911 R913	1-216-178-00 1-216-113-00 1-216-113-00 1-216-022-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	470K 75	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	R996 R997 R998 R999	1-216-202-00 1-216-053-00 1-216-053-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 5% 1.5K 5% 1.5K 5% 1.5K 5%	1/8W 1/10W 1/10W 1/10W	
R914 R915 R916 R917 R919	1-216-063-00 1-216-113-00 1-216-113-00 1-216-022-00 1-216-063-00	METAL GLAZE	470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	***************************************	*A-1620-049-A		LETE		
R920 R921 R922 R923 R924	1-216-063-00 1-216-022-00 1-216-222-00 1-216-039-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 75 10K 390 390	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/10W 1/10W	C1301 C1302 C1303 C1304 C1305	1-164-232-11 1-126-101-11 1-164-232-11 1-164-232-11	CERAMIC CHIP ELECT	100MF 0.01MF 0.01MF	10% 20% 10% 10% 5%	50V 16V 50V 50V 50V
R925 R926 R927 R928 R929	1-216-089-00 1-216-039-00 1-216-039-00 1-216-089-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 390 390 47K 3.9K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C1306 C1307 C1308 C1309 C1310	1-163-109-00 1-164-232-11 1-163-101-00 1-163-101-00 1-126-101-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 22PF	5% 10% 5% 5% 20%	50V 50V 50V 50V 16V
R930 R931 R932 R933 R934	1-216-113-00 1-216-212-00 1-216-113-00 1-216-073-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K	5% 5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W	C1311 C1312 C1313 C1314 C1315	1-163-038-91 1-163-133-00 1-104-792-51 1-126-101-11 1-164-232-11	ELECT ELECT	470PF 33MF 100MF	5% 20% 20% 10%	25V 50V 16V 16V 50V
R935 R937 R938 R939 R940	1-216-022-00 1-216-113-00 1-216-039-00 1-216-188-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	75 470K 390 390 3.9K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/10W	C1316 C1317 C1319 C1320 C1321		CERAMIC CHIP	0.01MF 0.001MF	20% 10% 10% 5% 10%	16V 50V 50V 50V 50V
R941 R942 R943 R944 R945	1-216-113-00 1-216-188-00 1-216-089-00 1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	470K 390 47K 390 47K	5% 5% 5% 5% 5%	1/10W 1/8W 1/10W 1/8W 1/10W	C1322 C1323 C1324 C1325 C1326	1-164-232-11 1-126-101-11 1-164-232-11	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	0.01MF 100MF 0.01MF	10% 10% 20% 10% 10%	50V 50V 16V 50V 50V
R946 R947 R948 R949 R950	1-216-022-00 1-216-178-00 1-216-073-00 1-216-113-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	75 150 10K 470K 3.9K		1/10W 1/8W 1/10W 1/10W 1/10W	C1327 C1328 C1329 C1330 C1331	1-164-232-11 1-163-038-91 1-163-038-91	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.1MF 0.1MF	10% 10%	50V 50V 25V 25V 50V
R951 R952 R953 R954 R955	1-216-063-00 1-216-113-00 1-216-188-00 1-216-039-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 470K 390 390 390		1/10W 1/10W 1/8W 1/10W	C1332 C1333 C1336 C1337 C1338	1-164-232-11 1-163-249-11	CERAMIC CHIP	0.01MF 82PF 180PF	10% 10% 5% 5% 0.5PF	50V 50V 50V 50V 50V
R956 R957 R958 R959 R960	1-216-089-00 1-216-039-00 1-216-089-00 1-216-071-00 1-216-071-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 390 47K 8.2K 8.2K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C1339 C1340 C1341	1-124-477-11	CERAMIC CHIP ELECT CERAMIC CHIP	47MF	0.5PF, 20% 10%	50V 16V 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	V		REMARK
	< CON	NECTOR >	.	R1321	1-216-049-00	METAL GLAZE	1K 5%	1/10	W
	4			R1322	1-216-025-00		100 5%	1/10	
CN0302	1-573-299-21	CONNECTOR, BOARD TO BOARD	10P	R1324 R1325	1-216-055-00 1-216-043-91		1.8K 5% 560 5%	1/10 1/10	
	< DIC	CONNECTOR, BOARD TO BOARD DDE > DIODE DAN202K CAPSULATED FILTER > FILTER, LOW PASS FILTER, LOW PASS FILTER, BAND PASS > IC CXD2024Q CL > INDUCTOR 4.7UH INDUCTOR 3.3UH INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 100UH INDUCTOR 56UH ANSISTOR > TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		R1326	1-216-067-00		5.6K 5%	1/10	
D1301	8-719-914-43	DIODE DAN202K		R1327	1-216-049-00		1K 5%	1/10	
	- DNA	משתודם משתנווסמני		R1328	1-216-049-00 1-216-049-00		1K 5% 1K 5%		
	LINC	AFBULH GAINGS		R1329	1-216-055-00		1.8K 5%		
FL1301	1-239-550-41	FILTER, LOW PASS		R1332	1-208-784-11		1.2K 0.5		
FL1302 FL1303	1-239-550-41	FILTER, LOW PASS FILTER, BAND PASS		R1333	1-216-666-11	METAL CHIP	4.3K 0.5	50% 1/101	W
,				R1334	1-208-767-11	METAL CHIP	240 0.5	50% 1/10	W
	< IC	>		R1335	1-216-637-11		270 0.5		
IC1301	8-752-357-88	IC CXD2024Q		R1337	1-216-657-11 1-216-663-11		1.8K 0.5		
				74220					
	< 001	ш >		R1338 R1339	1-216-657-11 1-216-295-91		1.8K 0.5 0 5%		
L1301	1-408-405-00	INDUCTOR 4.7UH	app distribution	R1342	1-216-295-91	METAL GLAZE	0 5%	1/10	
L1302	1-408-403-00	INDUCTOR 3.3UH		R1344	1-216-059-00		2.7K 5%		
L1303 L1304	1-408-405-00	INDUCTOR 4.70H		KIJ45	1-216-045-00	METAL GLAZE	680 5%	1/10	М
L1307	1-408-421-00	INDUCTOR 100UH		R1346	1-216-039-00		390 5%	1/10	
L1308	1_409_419_00	TAIDIIOMAD ECITO	,	R1347	1-216-055-00 1-216-041-00		1.8K 5% 470 5%	1/10	
D1300	1-400-410-00	INDUCTOR 500R		R1352	1-216-295-91		0 5%	1/10	
	< TRA	INSISTOR >		R1353	1-216-037-00		330 5%	1/10	
Q1301	8-729-216-22	TRANSISTOR 2SA1162-G		R1354	1-216-031-00	METAL GLAZE	180 5%	1/10	w
Q1302	8-729-216-22	TRANSISTOR 2SA1162-G		R1355	1-216-043-91	METAL GLAZE	560 5%	1/10	
Q1303 Q1304	8-729-216-22	TRANSISTOR 2SA1162-G		R1356	1-216-043-91		560 5%	1/10	
Q1304 Q1305	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1357	1-216-033-00 1-216-033-00	METAL CLAZE	220 5% 220 5%	1/10 1/10	W.
01206	0 720 020 74	TRANSISTOR 2SC2412K-QR		D1150	1 016 022 00	10011 01100	000 50	4.44.0	
Q1306 Q1307	8-729-216-22	TRANSISTOR 2SA1162-G		R1360	1-216-033-00	METAL GLAZE	220 5% 18 5%	1/10 1/4W	N
Q1308	8-729-216-22	TRANSISTOR 2SA1162-G		112000			*** 5.0	2/11	
Q1309 Q1311	8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		******	******	***********	******	******	******
-	•	HAMDIDION BOOKSIBN QN			*A-1622-006-A	P1 BOARD, COM	IPLETE		
Q1312 Q1313	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR				*********	****		
Q1314		TRANSISTOR 2SA1162-G			< CAF	ACITOR >			
Q1315	8-729-920-74	TRANSISTOR 2SC2412K-QR		01.401	1 162 020 01	ADDILLE AUTO	A 4145		A F
	< RES	SISTOR >		C1401 C1402	1-163-038-91 1-163-038-91	CERAMIC CHIP	0.1MF		25V 25V
				C1403	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
R1301 R1302	1-216-053-00 1-216-059-00		1/10W 1/10W	C1404		CERAMIC CHIP		10%	25V
R1302	1-216-043-91	METAL GLAZE 560 5%	1/10W	C1405	1-102-03/-00	CERAMIC CHIP	TOPE	5%	50V
R1304	1-216-043-91		1/10W	C1406		CERAMIC CHIP		5%	50V
R1305	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	C1407 C1408		CERAMIC CHIP CERAMIC CHIP		10%	25 V 50 V
R1306	1-216-073-00		1/10W	C1409	1-124-903-11		1MF	20%	50V
R1307 R1308	1-216-069-00 1-216-069-00		1/10W 1/10W	C1410	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R1309	1-216-055-00		1/10W	C1412	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R1310	1-216-295-91	METAL GLAZE 0 5%	1/10W	C1414	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
R1311	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C1416 C1417		CERAMIC CHIP		5% 5%	50V 50V
R1312	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	C1419		CERAMIC CHIP		3.0	25V
R1313 R1314	1-216-089-00 1-216-065-00		1/10W	Ø1420					1577
R1314	1-216-049-00		1/10W 1/10W	.C1420 C1421		CERAMIC CHIP			25V 25V
				C1422	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R1316 R1317	1-216-071-00 1-216-083-00		1/10W 1/10W	C1423 C1424		CERAMIC CHIP		10%	25V 50V
R1317	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	~146#	T-T03-003-11	CDIVABILE CHIP	O. OUTHE	TOQ	204
R1319	1-216-043-91	METAL GLAZE 560 5%	1/10W	C1425	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
R1320	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	C1426	1-103-037-00	CERAMIC CHIP	TORK.	5%	50V

P	1
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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	NC		RE	MARK
C1427	1-124-916-11	PT. POT 22	MF	20%	50V	DT 140E	1.026 071 11	ENGS DOM: SMED	COMPONE	3.777		
C1428		CERAMIC CHIP 0.		20%	25V	FL1405 FL1406		ENCAPSULATED				
C1429		CERAMIC CHIP 0.		5%	25V 50V		1-236-071-11	ENCAPSULATED	COMPONE	NT.		
C1423	1-103-031-00	CERAMIC CHIP 13	PF	34	204	FL1407	1-236-071-11	ENCAPSULATED	COMPONE	NT		
C1430	1-163-038-91	CERAMIC CHIP 0.	1MP		25V	FL1408	1-236-071-11	ENCAPSIII.ATED	COMPONE	יזינו		
C1431		CERAMIC CHIP 0.		10%	25V	122200	1 230 0,2 12	Michie Domine	COM	14.1		
C1432	1-164-004-11	CERAMIC CHIP 0.	1MF	10%	25V		< IC	>				
C1433	1-164-004-11	CERAMIC CHIP 0.	1MF	10%	25V	1						
C1434	1-163-038-91	CERAMIC CHIP 0.	1MF		25V	IC1401	8-759-183-35	IC TDA9160A				
						IC1402	8-759-288-85	IC TDA4665T				
C1435		CERAMIC CHIP 0.			25V	IC1403	8-759-248-15					
C1437		CERAMIC CHIP 0.		10%	25V	IC1404	8-759-324-35	IC SDA9188-3	XPGEG			•
C1438		CERAMIC CHIP 0.		10%	50V	IC1406	8-759-183-36	IC TDA8443B				
C1439 C1440		CERAMIC CHIP 47		5%	50V	201110						
C1440	1-103-245-11	CERAMIC CHIP 56	PF	5%	50 V	IC1410	8-759-295-82	IC L78L08ACZ	-AP			
C1441	1-164-005-11	CERAMIC CHIP 0.	A7MP		25V		4 001	7				
C1442	1-164-005-11	CERAMIC CHIP 0.	4.7MT		25V		< COI	.ш >				
C1443	1-163-251-11	CERAMIC CHIP 10	OPF	5%	50V	L1401	1-408-418-00	TADITOTOR	56 U H			
C1444		CERAMIC CHIP 0.		5.0	25V	L1405	1-408-407-00		6.8UH			
C1445		CERAMIC CHIP 0.			25V	L1406	1-408-407-00	INDUCTOR	6.8UH			
						L1407	1-414-233-21					
C1446	1-164-005-11	CERAMIC CHIP 0.	47MF		25V	L1408	1-414-233-21					
C1451		CERAMIC CHIP 68		10%	50V			•				
C1452		CERAMIC CHIP 0.			25V		< TRA	NSISTOR >				
C1453		CERAMIC CHIP 0.			25V							
C1454	1-163-038-91	CERAMIC CHIP 0.	1MF		25V	Q1401	8-729-920-74	TRANSISTOR 2	SC2412K-	QR		
C1455	1 162 122 00	GRANTO GUTA 42	ADT	PO.	FATT	Q1402	8-729-920-74	TRANSISTOR 2	SC2412K-	QR		
C1455		CERAMIC CHIP 47 CERAMIC CHIP 47		5% 5%	50V 50V	Q1403	8-729-920-74	TRANSISTOR 2	SC2412K-	QR		
C1457		CERAMIC CHIP 4/		24	25V	Q1404 Q1405	8-729-216-22	TRANSISTOR 2	SAI102~G	OB		•
C1458		CERAMIC CHIP 2.			16V	Q1403	0-123-320-14	TRANSISTOR 2	SC2412K-	QK		
C1459	1-164-505-11	CERAMIC CHIP 2.	2MF		16V	Q1406	8-729-920-74	TRANSISTOR 2	SC2412K-	OR		
						Q1407	8-729-216-22					
C1460	1-163-038-91	CERAMIC CHIP 0.	1MF		25V	Q1408	8-729-216-22					
C1461		CERAMIC CHIP 0.			25V	Q1409	8-729-216-22					
C1462		CERAMIC CHIP 0.	47MF		25V	Q1413	8-729-216-22	TRANSISTOR 2	SA1162-G			
C1463	1-126-101-11		OMF	20%	16V							
C1464	1-126-101-11	ELECT 10	0MF	20%	16V	Q1414	8-729-900-53	TRANSISTOR D	TC114EK			
01.465	1 105 101 11		A	0.00	4.600	Q1416	8-729-920-74			QR		
C1465 C1466	1-126-101-11 1-126-101-11		OMF OMF	20% 20%	16V	01417	8-729-900-53					
C1467	1-126-101-11		OMF	20%	16V 16V	Q1418 Q1419	8-729-900-53	TRANSISTOR D				
C1468		CERAMIC CHIP 2.		20'0	16V	ÖTATA	0-123-300-33	TRANSISTOR D	TCTT4DV			
C1469	1-164-505-11	CERAMIC CHIP 2.			16V	Q1421	8-729-920-74	TRANSTSTOR 2	SC2412K-	OR		
						Q1422	8-729-920-74	TRANSISTOR 2	SC2412K-	OR		
C1471	1-164-004-11	CERAMIC CHIP 0.	1MF	10%	25V	Q1425		TRANSISTOR 2				
C1472	1-164-004-11	CERAMIC CHIP 0.	1MF	10%	25V	Q1426		TRANSISTOR 2		QR		
C1473	1-164-004-11	CERAMIC CHIP 0.	1MF	10%	25 V	Q1430	8-729-900-53	TRANSISTOR D	TC114EK			
C1481		CERAMIC CHIP 0.			25V							
C1482	1-163-133-00	CERAMIC CHIP 47	OPF	5%	50V	Q1431	8-729-901-04	TRANSISTOR D	TA114EK			
C1491	1_162_251_11	CERAMIC CHIP 10	ADP	5%	50V		. 876	TOMOR .				
01471	1-103-231-11	CHAMIC CHIP IO	OFF.	Ja	304	.	< KB2	SISTOR >				
	< CON	NECTOR >				JR1401	1-216-295-91	METAL GLAZE	0	5%	1/10W	
						JR1402	1-216-295-91		Ō	5%	1/10W	
		PIN, CONNECTOR										
CN1515		PLUG, CONNECTOR				R1401	1-216-097-00			5%	1/10W	
CN1516		PIN, CONNECTOR				R1402	1-216-073-00			5%	1/10W	
CN1538	1-5/3-299-21	CONNECTOR, BOAR	D TO BOAR	D 10P		R1403	1-216-025-00			5%	1/10W	
	< DIO	שת -				R1404 R1405	1-216-025-00 1-216-049-00			5% 5%	1/10W 1/10W	
	\ D10	<i>DB</i> >				W1402	1-210-049-00	METAL GLACE	TV	24	1/10%	
D1401	8-719-401-41	DIODE MA3051L				R1406	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
D1403		DIODE DAN202K				R1407	1-216-057-00			5%	1/10W	
D1404		DIODE DA204K				R1408	1-216-041-00			5%	1/10W	
D1405	8-719-914-42	DIODE DA204K				R1410	1-216-029-00			5%	1/10W	
		1 D C C C C C C C C C C C C C C C C C C				R1411	1-216-041-00	METAL GLAZE	470	5%	1/10W	
	< ENC	APSULATED FILTER	>			P4440	1 016 044 00	MDW11 011-5	450	FO	4 /4 00-	
FL1403	1-236-071-11	ENCAPSULATED CO	MDO/MISINI			R1412 R1413	1-216-041-00 1-216-041-00			5% 5%	1/10W	
FL1404		ENCAPSULATED CO				R1414	1-216-041-00			5%	1/10W 1/10W	
	3 222 4/2 44						T 220 010 00	THE CHARLE	000	J.0	1/1011	

P1 A1

REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>N</u>		REMARK
R1415 R1416	1-216-045-00 1-216-049-00	_	680 1K	5% 5%	1/10W 1/10W		*A-1630-303-A	A1 BOARD, CO			
R1417	1-216-033-00		220	5%	1/10W		< CAP	ACITOR >			
R1418	1-216-025-00		100	5%	1/10W						
R1419 R1421	1-216-027-00 1-216-033-00		120	5%	1/10W	C1101	1-126-101-11		100MF	20%	16V
R1421	1-216-033-00		220 82	5% 5%	1/10W 1/10W	C1102 C1103	1-126-101-11		100MF	20%	16V
WITER	1.210-023-00	METAU GUAZE	04	24	1/10#	C1103	1-163-038-91	CERAMIC CHIP		1.00.	25V
R1424	1-216-041-00	METAL GLAZE	470	5%	1/10W	C1104	1-164-489-11	CERAMIC CHIP		10% 10%	25V 16V
R1425	1-216-041-00		470	5%	1/10W	011VJ	1 104 105 11	Chamic chir	V. 22HF	10%	104
R1426	1-216-041-00		470	5%	1/10W	C1106	1-163-187-00	CERAMIC CHIP	180PF	5%	50V
R1427	1-216-041-00		470	5%	1/10W	C1107	1-163-009-11		0.001MF	10%	:50V
R1429	1-216-091-00	METAL GLAZE	56K	5%	1/10W	C1108		CERAMIC CHIP			50V
R1430	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	C1109 C1110	1-163-033-91 1-164-336-11				50V
R1431	1-216-073-00		10K	5%	1/10W	CIIIV	1-104-330-11	CERAMIC CHIP	U.SSMF		25V
R1434	1-216-043-91		560	5%	1/10W	C1111	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
R1435	1-216-073-00		10K	5%	1/10W	C1112	1-164-161-11			10%	50V
R1436	1-216-043-91	METAL GLAZE	560	5%	1/10W	C1113	1-124-477-11		47MF	20%	16V
R1437	1-216-031-00	WEMST OTSER	100	EQ.	1/1097	C1114	1-163-038-91	CERAMIC CHIP			25V
R1438	1-216-045-00		180 680	5% 5%	1/10W 1/10W	C1115	1-124-477-11	ELECT	47MF	20%	16V
R1439	1-216-057-00		2.2K	5%	1/10W	C1116	1-106-228-00	MYLAR	0.22MF	10%	100V
R1441	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	C1117	1-163-081-00	CERAMIC CHIP		10-0	25V
R1442	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	C1118	1-163-113-00	CERAMIC CHIP		5%	50V
R1443	1 016 052 00	WEELL OLIER	1	EO.	4 /4 000	C1119	1-163-193-00	CERAMIC CHIP		5%	50V
R1444	1-216-053-00 1-216-041-00		1.5K 470	5% 5%	1/10W 1/10W	C1120	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
R1445	1-216-083-00		27K	5%	1/10W	C1121	1-163-113-00	CERAMIC CHIP	SODE	5%	50V
R1449	1-216-033-00		220	5%	1/10W	C1122	1-163-081-00	CERAMIC CHIP		20	25V
R1450	1-216-033-00	METAL GLAZE	220	5%	1/10W	C1123	1-106-228-00	MYLAR	0.22MF	10%	100V
D4.450	4 046 000 00				, , , , , ,	C1124	1-124-477-11	ELECT	47 MF	20%	16V
R1453 R1454	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5 % 5%	1/10W 1/10W	C1125	1-124-477-11	ELECT	47MF	20%	16V
R1455	1-216-023-00		22K	5%	1/10W	C1126	1-163-077-00	CERAMIC CHIP	0 1MP	10%	25V
R1456	1-216-081-00		22K	5%	1/10W	C1127	1-163-077-00			100	25V
R1457	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C1128	1-124-477-11	ELECT	47MF	20%	16V
71450	1 016 052 00	VEED 2 01 1 0 1	4 500	F0	4 /4 ***	C1129	1-163-038-91	CERAMIC CHIP			25V
R1458 R1462	1-216-053-00 1-216-073-00	METAL GLAZE METAL GLAZE	1.5K	5%	1/10W	C1130	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
R1464	1-216-093-00	METAL GLAZE	10K 68K	5% 5%	1/10W 1/10W	C1131	1-163-059-00	CERAMIC CHIP	0.0110		50 v
R1465	1-216-093-00	METAL GLAZE	68K	5%	1/10W	C1132	1-163-039-00				25V
R1466	1-216-295-91	METAL GLAZE	0	5%	1/10W	C1133	1-124-907-11	ELECT	10MF	20%	50V
P4460	4 444 444 44					C1134	1-163-009-11		0.001MF	10%	50V
R1468 R1469	1-216-049-00		1K	5%	1/10W	C1135	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R1471	1-216-049-00 1-216-037-00		1K 330	5% 5%	1/10W 1/10W	C1136	1_162_117_00	CERAMIC CHIP	10000	EQ.	FARE
R1481	1-216-089-00		47K	5%	1/10W	C1136		CERAMIC CHIP		5%	50V 25V
R1483	1-216-079-00	METAL GLAZE	18K	5%	1/10W	C1138		CERAMIC CHIP		5%	50V
54454						C1139	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
R1484 R1485	1-216-081-00		22K	5%	1/10W	C1140	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
R1485	1-216-041-00 1-216-033-00	METAL GLAZE	470 220	5% 5%	1/10W 1/10W	C1141	1_162_205 00	מדות מדות מודי	0.001147	EG	EAT
R1487	1-216-033-00		220	5%	1/10W 1/10W	C1141		CERAMIC CHIP CERAMIC CHIP		5%	50V 50V
R1493	1-216-075-00	METAL GLAZE	12K	5%	1/10W	C1143		CERAMIC CHIP		10%	50V
54.45.4						C1144	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
R1494 R1495	1-216-025-00	METAL GLAZE	100	5%	1/10W	C1145	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
R1495 R1496	1-216-053-00 1-216-065-00	METAL GLAZE	1.5K 4.7K		1/10W 1/10W	C1146	1_162_020_04	CERAMIC CHIP	Λ 1 M2		257
R1497	1-216-053-00		1.5K		1/10W	C1146	1-103-036-91		47MF	20%	25 V 16V
R1498	1-216-053-00		1.5K		1/10W	C1148	1-164-161-11	CERAMIC CHIP		10%	50V
m4 44.5						C1149	1-124-477-11	ELECT	47MF	20%	: 16V
R1499	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C1150	1-163-038-91	CERAMIC CHIP	0.1MF		25V
	~ CDV	STAL >				C1151	1_162_020_01	CERAMIC CHIP	A 11479		2517
	CA1	- HAND /				C1151	1-103-038-91		0.1MF	20%	25V 16V.
X1401		OSCILLATOR, O				C1153	1-163-087-00			0.25PE	
X1402		OSCILLATOR, (ı		C1154	1-163-038-91	CERAMIC CHIP			25V
X1403	1-760-551-21	VIBRATOR, CE	RAMIC			C1155	1-124-477-11	ELECT	47MF	20%	16V
						C1156	1-163-000-11	CERAMIC CHIP	በ በበ1ነነው	10%	50V
					I	CIIJO	T-103-002-TI	CERMAIC CAIP	O. VOLME	10%	JUV

				(P-	S	161	3/2
			A	1		Α	
DE	SCRIPTION	l			R	EMAI	RK
ETAL ETAL ETAL	GLAZE GLAZE GLAZE GLAZE GLAZE	1.2K 10 220K 1M 1K	5% 5% 5% 5% 5%	1/10 1/10 1/10 1/10 1/10	OW OW		
ETAL ETAL ETAL	GLAZE GLAZE GLAZE GLAZE GLAZE	100K 100K 10K 27K 22K	5% 5% 5% 5% 5%	1/10 1/10 1/10 1/80 1/10	W OW W		
ETAL ETAL ETAL	GLAZE GLAZE GLAZE GLAZE GLAZE	22 22 47K 100K 6.8K	5% 5% 5% 5%	1/8 1/8 1/1 1/1 1/8	w 0w 0w		
etal Etal	GLAZE GLAZE GLAZE GLAZE GLAZE	100K 47K 47K 100K 6.8K	5% 5% 5% 5%	1/1 1/1 1/1 1/8 1/8	OW OW W		
ETAL ETAL ETAL	GLAZE GLAZE GLAZE GLAZE GLAZE	100K 47K 3.9K 22K 22K	5% 5% 5% 5% 5%	1/1 1/1 1/8 1/1 1/1	OW W OW		
ETAL ETAL ETAL	GLAZE GLAZE GLAZE GLAZE GLAZE	82K 100K 15 3.3K 3.3K	5% 5% 5% 5% 5%	1/1 1/1 1/1 1/1 1/1	OW OW OW		
etal Etal Etal	GLAZE GLAZE GLAZE GLAZE GLAZE	220 1K 1K 10 1K	5% 5% 5% 5% 5%	1/1 1/1 1/1 1/1 1/1	WO WO		
etal Etal Etal	GLAZE GLAZE GLAZE GLAZE GLAZE	680 1K 10 680 1K	5% 5% 5% 5%	1/1 1/1 1/1 1/1 1/1	WO WO		
etal Etal	GLAZE GLAZE GLAZE	1K 1K 470	5% 5% 5%	1/1 1/1 1/1	0W		
	TOR, CRYS						
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	RD, COMPI						

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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>,</u>			REMARK
C1157 C1158	1-163-038-91	CERAMIC CHIP 0.001M CERAMIC CHIP 0.1MF		50V 25V	R1112 R1113	1-216-051-00 1-216-001-00 1-216-105-91	METAL GLAZE	1.2K 10	5%	1/10W 1/10W	
	< FIL	TER > FILTER, BAND PASS			R1114 R1115	1-216-121-00	METAL GLAZE		5%	1/10W 1/10W	
BP1101	1-239-047-11	FILTER, BAND PASS			R1116	1-216-049-00		1K		1/10W	
CF1101	1-409-327-00	TRAP, CERAMIC (6.5M	HZ)		R1117 R1118	1-216-097-00 1-216-097-00	METAL GLAZE		5% 5%	1/10W 1/10W	
CF1102	1-404-134-00	TRAP, CERAMIC (5.5M	HZ)		k1119 R1120	1-216-073-00 1-216-232-00	METAL GLAZE		5% 5%	1/10W 1/8W	
	< CON	NECTOR >			R1121	1-216-081-00				1/10W	
CN0201	1-695-300-11	CONNECTOR, BOARD TO	BOARD 20P		R1122 R1123	1-216-158-00 1-216-158-00			5% 5%	1/8W 1/8W	
	< DIO	DE >			R1124	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
D1101		DIODE DAP202K			R1125 R1126	1-216-097-00 1-216-218-00			5% 5%	1/10W 1/8W	
D1102 D1103		DIODE 1SV217 DIODE 1SV214			R1127	1-216-097-00		100K		1/10W	
	< FER	RITE BEAD >			R1128 R1129	1-216-089-00 1-216-089-00			5% 5%	1/10W 1/10W	
FB1101	1-410-396-41	FERRITE BEAD INDUCT	OR 0.45UH		R1130 R1131	1-216-246-91 1-216-218-00		100K 6.8K	5% 5%	1/8W 1/8W	
FB1102 FB1103		FERRITE BEAD INDUCT			R1132	1-216-097-00			5%	1/10W	
FB1104 FB1105	1-410-396-41	FERRITE BEAD INDUCT FERRITE BEAD INDUCT	OR 0.45UH		R1133 R1134	1-216-089-00 1-216-212-00	METAL GLAZE		5%	1/10W 1/8W	
FB1107		FERRITE BEAD INDUCT			R1135 R1136	1-216-081-00		22K	5%	1/10W	
	< IC		NOCE.U AU	-		1-216-081-00			5%	1/10W	
T01101					R1137 R1138	1-216-095-00 1-216-097-00	METAL GLAZE	100K	5%	1/10W 1/10W	
IC1101 IC1102	8-759-511-88 8-759-073-17				R1139 R1140	1-216-005-00 1-216-061-00	METAL GLAZE	3.3K	5% 5%	1/10W 1/10W	
	< COI	L >			R1141	1-216-061-00			5%	1/10W	
L1101	1-408-405-00				R1142 R1143	1-216-033-00 1-216-049-00	METAL GLAZE		5% 5%	1/10W 1/10W	
L1102 L1103	1-408-405-00 1-410-119-11				R1144 R1145	1-216-049-00 1-216-001-00				1/10W 1/10W	
L1104 L1105	1-410-119-11 1-408-407-00				R1146	1-216-049-00			5%	1/10W	
	< TRA	NSISTOR >			R1147 R1148	1-216-045-00 1-216-049-00				1/10W 1/10W	
Q1101		TRANSISTOR 2SC2412F	_OP		R1149 R1150	1-216-001-00 1-216-045-00	METAL GLAZE	10	5% 5%	1/10W 1/10W	
Q1102 Q1103	8-729-920-74	TRANSISTOR 2SC2412F TRANSISTOR 2SC2412F	I-QR		R1151	1-216-049-00			5%	1/10W	
Q1104	8-729-920-74	TRANSISTOR 2SC2412F	-QR		R1152	1-216-049-00		1K	5%	1/10W	
Q1105		TRANSISTOR 2SC2412F	-		R1153 R1154	1-216-049-00 1-216-041-00		1K 470	5% 5%	1/10W 1/10W	
Q1106 Q1107 Q1108	8-729-920-74	TRANSISTOR 2SC2412F TRANSISTOR 2SC2412F TRANSISTOR 2SC2412F	C-QR			< CRY	STAL >				
	< RES	SISTOR >			X1101 X1102		VIBRATOR, CRY VIBRATOR, CRY				
JR1102 JR1103	1-216-296-00 1-216-296-00		5% 1/81 5% 1/81		*******	**********	*******	*****	*****	*****	******
JR1104	1-216-295-91	METAL GLAZE 0	5% 1/1	OW		*A-1632-207-A	A BOARD, COMP				
R1101 R1103 R1104	1-216-188-00 1-216-198-91 1-216-041-00	METAL GLAZE 1K	5% 1/8% 5% 1/8% 5% 1/1%	И		4-201-023-11	SPACER, INSUL	ATING			
R1105 R1106	1-216-005-00 1-216-036-00	METAL GLAZE 15	5% 1/1 5% 1/1	0W		< CAF	ACITOR >				
R1107	1-216-042-00		5% 1/1	OW	C001 C071	1-130-777-00 1-124-041-00		0.1MF 220MF		5% 20%	63V 16V
R1108 R1109	1-216-063-00 1-216-202-00				C072 C073	1-124-120-11		220MF	2	20% 5%	16V 50V
R1110 R1111	1-216-196-00 1-216-041-00	METAL GLAZE 820	5% 1/8 5% 1/1	W	C074		CERAMIC CHIP			10%	50V
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REF.NO.	PART NO.	DESCRIPTION	REM/	ARK REF.NO.	PART NO.	DESCRIPTION		REMARK
C101 C102 C103 C104 C105	1-126-101-11 1-126-103-11 1-163-031-11 1-124-910-11 1-124-916-11	ELECT 100MF ELECT 470MF CERAMIC CHIP 0.01MF ELECT 47MF ELECT 22MF	20% 16V 20% 16V 50V 20% 50V 20% 50V	C305 C306 C307	1-164-004-11 1-163-117-00 1-163-117-00 1-163-017-00 1-163-809-11	CERAMIC CHIP 100PF CERAMIC CHIP 100PF	10% 5% 5% 10% 10%	25V 50V 50V 50V 25V
C106 C120 C201 C202 C203	1-124-927-11 1-163-031-11 1-130-489-00 1-130-489-00 1-164-005-11	ELECT 4.7MF CERAMIC CHIP 0.01MF FILM 0.033MF FILM 0.033MF CERAMIC CHIP 0.47MF	20% 50V 50V 5% 50V 5% 50V 25V	C310 C311 C312	1-164-004-11 1-163-038-91 1-163-077-00 1-124-910-11 1-163-077-91	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10% 20%	25V 25V 25V 50V 50V
C204 C205 C206 C207 C208	1-164-005-11 1-124-907-11 1-164-161-11 1-137-613-11 1-164-005-11	CERAMIC CHIP 0.47MF ELECT 10MF CERAMIC CHIP 0.0022MF FILM 0.0018MF CERAMIC CHIP 0.47MF	25V 20% 50V 10% 50V 2% 100 25V	C315 C316 V C317	1-163-038-91 1-124-910-11 1-163-077-91 1-163-103-00 1-163-103-00	CERAMIC CHIP 0.1MF ELECT 47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 27PF CERAMIC CHIP 27PF	20% 5% 5%	25V 50V 50V 50V 50V
C209 C210 C212 C213 C214	1-164-005-11 1-164-005-11 1-124-927-11 1-163-023-00 1-163-023-00	CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF ELECT 4.7MF CERAMIC CHIP 0.015MF CERAMIC CHIP 0.015MF	25v 25v 20% 50v 10% 50v 10% 50v	C320 C321 C322	1-163-038-91 1-124-910-11 1-163-038-91 1-124-916-11 1-163-135-00	CERAMIC CHIP 0.1MF ELECT 47MF CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 560PF	20% 20% 5%	25V 50V 25V 50V 50V
C215 C216 C217 C218 C219	1-163-809-11 1-163-809-11 1-124-925-11 1-124-925-11 1-163-011-11	CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF ELECT 2.2MF ELECT 2.2MF CERAMIC CHIP 0.0015MF	10% 25V 10% 25V 20% 50V 20% 50V 10% 50V	C325 C333 C341	1-124-910-11 1-216-295-91 1-163-213-00 1-163-077-00 1-163-077-00	ELECT 47MF METAL GLAZE 0 5% CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20% 1/10° 5% 10% 10%	50V W 50V 25V 25V
C220 C221 C222 C223 C224	1-163-011-11 1-124-925-11 1-124-925-11 1-136-177-00 1-136-177-00	CERAMIC CHIP 0.0015MF ELECT 2.2MF ELECT 2.2MF FILM 1MF FILM 1MF	10% 50V 20% 50V 20% 50V 5% 50V 5% 50V	C344 C345 C347	1-164-004-11 1-162-638-11 1-162-638-11 1-162-638-11 1-162-638-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	10%	25V 16V 16V 16V 16V
C225 C226 C227 C228 C229	1-164-182-11 1-163-007-11 1-124-907-11 1-124-907-11 1-126-101-11	CERAMIC CHIP 0.0033MF CERAMIC CHIP 680PF ELECT 10MF ELECT 10MF ELECT 100MF	10% 50V 10% 50V 20% 50V 20% 50V 20% 16V	C350 C351 C352	1-162-638-11 1-124-907-11 1-126-101-11 1-163-031-11 1-162-638-11	CERAMIC CHIP 1MF ELECT 10MF ELECT 100MF CERAMIC CHIP 0.01MF CERAMIC CHIP 1MF	20% 20%	16V 50V 16V 50V 16V
C230 C231 C232 C233 C234	1-126-101-11 1-164-346-11 1-163-009-11 1-163-009-11 1-163-017-00	CERAMIC CHIP 1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.0047MF	20% 16V 16V 10% 50V 10% 50V 10% 50V	C355 C356 C357	1-162-638-11 1-162-638-11 1-164-299-11 1-164-299-11 1-164-299-11	CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF	10% 10% 10%	16V 16V 25V 25V 25V
C235 C236 C237 C238 C239	1-130-772-00 1-124-618-11 1-124-618-11 1-163-017-00 1-130-772-00	ELECT 2200MF ELECT 2200MF CERAMIC CHIP 0.0047MF	5% 63V 20% 35V 20% 35V 10% 50V 5% 63V	C361 C362 C363	1-124-907-11 1-163-101-00 1-130-772-00 1-124-907-11 1-124-120-11	CERAMIC CHIP 22PF FILM 0.22MF BLECT 10MF	20% 5% 5% 20% 20%	50V 50V 63V 50V 16V
C240 C241 C242 C244 C248	1-124-916-11 1-124-916-11 1-124-903-11 1-164-232-11 1-163-121-00	ELECT 22MF ELECT 1MF	20% 50V 20% 50V 20% 50V 10% 50V 5% 50V	C401 C402 C403	1-124-917-11 1-164-005-11	CERAMIC CHIP 0.47MF	20% 20%	50V 16V 50V 16V 25V
C249 C250 C251 C254 C255	1-124-902-00 1-163-129-00 1-126-320-11 1-163-133-00 1-163-133-00	CERAMIC CHIP 330PF	20% 50V 5% 50V 20% 16V 5% 50V	C421 C422 C423	1-164-005-11 1-124-910-11 1-124-910-11 1-106-367-00 1-163-129-00	ELECT 47MF MYLAR 0.01MF	20% 20% 10% 5%	25V 50V 50V 400V 50V
C256 C257 C301 C302 C303	1-163-133-00 1-163-038-91 1-163-038-91	CERAMIC CHIP 470PF CERAMIC CHIP 470PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 2.2MF	5% 50V 5% 50V 25V 25V 16V	C426 C427 C428	1-124-910-11 1-164-346-11	CERAMIC CHIP 1MF CERAMIC CHIP 1MF	5% 20% 20%	50V 50V 16V 16V 16V

REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPTION
C501 C502 C503 C504	1-124-907-11 1-124-902-00 1-130-487-00	ELECT	10MF 0.47MF 0.022MF	20% 20% 5%	50V 50V 50V 5 0V	CF581		OSCILALTOR, CERAMIC
C505	1-136-598-11		3MF	5%	200V		< COM	INECTOR >
C507 C508 C509 C510 C514	1-108-700-11 1-102-973-00 1-102-030-00 1-136-565-11 1-163-031-11	CERAMIC CERAMIC	0.047MF 100PF 330PF 0.015MF 0.01MF	10% 5% 10% 3%	200V 50V 500V 1.4KV 50V	CN0001 CN0101 CN0103 CN0104 CN0105	1-695-297-11 1-695-297-11 *1-568-880-51	PIN, CONNECTOR 5P CONNECTOR, BOARD TO BOARD 20P CONNECTOR, BOARD TO BOARD 20P PIN, CONNECTOR 5P PIN, CONNECTOR 4P
C515 C517 C518 C520 C522	1-124-907-11	CERAMIC CHIP	10MF	20% 20%	50V 50V 50V 50V 160V	CN0108 CN0109 CN0110 CN0113 CN0114	1-695-299-11 *1-568-882-51 1-695-298-11	PLUG, CONNECTOR 10P CONNECTOR, BOARD TO BOARD 50P PIN, CONNECTOR 7P CONNECTOR, BOARD TO BOARD 40P PIN, CONNECTOR 4P
C523 C524 C525 C526 C528		ELECT CERAMIC CHIP CERAMIC CHIP		10% 20% 20%	200V 16V 50V 50V 50V	CN0115 CN0116 CN0119 CN0120 CN0121	*1-568-879-11 *1-568-878-51 *1-691-291-11	PLUG, CONNECTOR 13P PIN, CONNECTOR 4P PIN, CONNECTOR 3P PIN, CONNECTOR (PC BOARD) 5P PIN, CONNECTOR (PC BOARD) 5P
C529 C530 C531 C532 C536		CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.22MF	20% 10% 10% 5% 20%	16V 25V 25V 50V 50V	CN0122 CN0123 CN0124 CN0125 CN0126	*1-568-880-51 *1-568-880-51 *1-568-880-51	PIN, CONNECTOR (PC BOARD) 5P PIN, CONNECTOR 5P PIN, CONNECTOR 5P PIN, CONNECTOR 5P PLUG, CONNECTOR 8P
C537 C539 C542 C543 C544	1-163-031-11		0.01MF	20% 20%	50V 50V 50V 50V 50V	CN0127 CN0128 CN0129 CN0131 CN0132	*1-568-882-51 1-508-784-00 *1-568-879-11	PLUG, CONNECTOR 9P PIN, CONNECTOR 7P PIN, CONNECTOR (5MM PITCH) 1P PIN, CONNECTOR 4P PIN, CONNECTOR (PC BOARD) 8P
C545 C557 C569 C574 C575	1-102-030-00 1-123-935-00 1-163-117-00		330PF 33MF 100PF	10% 20% 5% 10%	50V 500V 160V 50V 25V	CN0133 CN0134 CN0135 CN0161	*1-568-880-51 1-508-786-00 1-695-915-11	PLUG, CONNECTOR 10P PIN, CONNECTOR 5P PIN, CONNECTOR (5MM PITCH) 2P TAB (CONTACT)
C576		CERAMIC CHIP		10%	25V		< DIC	ODE >
C577 C578 C579 C580	1-163-031-11 1-124-910-11 1-163-031-11	CERAMIC CHIP	0.01MF 47MF 0.01MF	5% 20%	50V 50V 50V 50V	D068 D069 D071 D073	8-719-914-44 8-719-109-89 8-719-109-89	DIODE DAP202K DIODE DAP202K DIODE RD5.6ESB2 DIODE RD5.6ESB2 DIODE DAN202K
C581 C582 C583 C585 C586	1-124-916-11 1-163-133-00 1-163-009-11		22MF 470PF 0.001MF	20% 5% 10% 10%	50V 50V 50V 50V 50V	D077 D078 D079 D101 D206	8-719-109-89 8-719-109-89 8-719-982-27	DIODE DAN202K DIODE RD5.6ESB2 DIODE RD5.6ESB2 DIODE MTZJ-33C DIODE DAN202K
C587 C588 C589 C590 C591	1-124-903-11 1-164-346-11 1-126-103-11 1-124-916-11 1-124-925-11	CERAMIC CHIP ELECT ELECT	1MF 1MF 470MF 22MF 2.2MF	20% 20% 20% 20%	50V 16V 16V 50V 50V	D207 D208 D209 D210 D211	8-719-921-89 8-719-914-43 8-719-901-33 8-719-901-33	DIODE MTZJ-13C DIODE DAN202K DIODE 1SS133 DIODE 1SS133 DIODE 1SS133
C592 C593 C595 C599 C680	1-164-182-11 1-163-109-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.0033MF 47PF	10% 10% 5% 10% 20%	50V 50V 50V 50V 25V	D212 D213 D301 D304 D305	8-719-901-33 8-719-914-43 8-719-914-43 8-719-109-89	DIODE 1SS133 DIODE DAN202K DIODE DAN202K DIODE RD5.6ESB2 DIODE DAN202K
C682 C684 C685 C686 C687	1-126-101-11 1-126-101-11 1-124-122-11 1-124-916-11 1-124-916-11	ELECT ELECT ELECT	100MF 100MF 100MF 22MF 22MF	20% 20% 20% 20% 20%	16V 16V 50V 50V 50V	D306 D307 D308 D311	8-719-914-43 8-719-914-43 8-719-800-76	DIODE DAN202K DIODE DAN202K DIODE DAN202K DIODE 155226 DIODE 155226



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPT	ION	REMARK
D401 D403 D405 D406 D407	8-719-110-14 8-719-110-14 8-719-110-14	DIODE RD9.1ESB3 DIODE RD9.1ESB3 DIODE RD9.1ESB3 DIODE RD9.1ESB3 DIODE RD9.1ESB3		L502 L505 L507 L575 L610	1-410-645-31 1-459-313-00 1-459-313-00 1-408-397-00 1-412-539-41	COIL WITH COIL WITH COIL WITH COIL		
D501 D502	8-719-971-20	DIODE ERC38-06 DIODE ERC38-06		L611	1-412-539-41		150UH	
D503 D504 D505	8-719-300-80 8-719-109-89 8-719-900-9 5	DIODE RD5.6ESB2		Q071	< TRA 8-729-901-05	NSISTOR > TRANSISTOR	DTA124EK	
D506 D508 D510 D512 D513	8-719-914-43 8-719-901-33	DIODE DAN202K		Q101 Q102 Q103 Q104	8-729-216-22 8-729-901-00 8-729-900-53 8-729-216-22	TRANSISTOR TRANSISTOR TRANSISTOR	DTC124EK DTC114EK 2SA1162-G	
D514 D522 D523	8-719-914-43 8-719-914-43 8-719-914-43	DIODE DAN202K DIODE DAN202K DIODE DAN202K DIODE DAN202K		Q105 Q201 Q202 Q203 Q204	8-729-900-53 8-729-920-74 8-729-920-74 8-729-920-74 8-729-216-22	TRANSISTOR TRANSISTOR TRANSISTOR	2SC2412K-QR 2SC2412K-QR 2SC2412K-QR	
D524 D525		DIODE DAN202K DIODE DAN202K		Q205 Q206	8-729-216-22 8-729-216-22	TRANSISTOR	2SA1162-G	
D526 D555 D571 D615 D616	8-719-914-43 8-719-800-76 8-719-921-88	DIODE DAN202K DIODE DAN202K DIODE 1SS226 DIODE MTZJ-13B DIODE MTZJ-13B		Q207 Q209 Q210	8-729-920-74 8-729-920-74 8-729-920-74 8-729-901-00	TRANSISTOR TRANSISTOR TRANSISTOR	2SC2412K-QR 2SC2412K-QR 2SC2412K-QR	
	< IC			Q302 Q303	8-729-216-22 8-729-216-22	TRANSISTOR TRANSISTOR	2SA1162-G 2SA1162-G	
IC001 IC005 IC072 IC201 IC202	8-752-058-71 8-759-184-27 8-759-266-64	IC CX-7948A IC CXA1656S IC ST24C16CB1 IC TDA6612-5 IC TDA2822M	·	Q304 Q305 Q306 Q308 Q309	8-729-900-53 8-729-901-01 8-729-216-22 8-729-216-22 8-729-931-02	TRANSISTOR TRANSISTOR TRANSISTOR	DTC144EK 2SA1162-G 2SA1162-G	
IC251 IC261	8-759-072-99	HOLDER, IC ; IC251		Q310 Q311 Q312 Q401	8-729-901-00 8-729-901-06 8-729-900-53 8-729-920-74	TRANSISTOR TRANSISTOR TRANSISTOR	DTC124EK DTA144EK DTC114EK	
IC301 IC302	8-759-189-90 8-759-084-91	IC TDA9145/N2B IC TDA4661/V2		Q402 Q403 Q404	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR TRANSISTOR	2SC2412K-QR 2SC2412K-QR	
IC304 IC401 IC402 IC502	8-752-056-54 8-752-068-46 8-759-073-00 8-752-057-18	IC CXA1855S IC TEA2114		Q501 Q502		TRANSISTOR SCREW (M3X1	2SC4927-01 0), P, SW (+);	Q502
IC681 IC682	8-759-279-71	IC TA7812S SCREW (M3X10), P, SW IC UPD6600AGS-B50 SCREW (M3X10), P, SW		Q503 Q504 Q505 Q506	8-729-216-22 8-729-920-74 8-729-201-32 8-729-201-32	TRANSISTOR TRANSISTOR	2SC2412K-QR 2SA1013-0	.
IC683		IC NJM78M09FA SPRING, IC ; IC683		Q507 Q508	8-729-304-92 8-729-204-16	TRANSISTOR	2SA1301-0	
	< IF	BLOCK >				SCREW (M3X1	0), P, SW (+);	Q508
IFB101	1-467-573-11	IF BLOCK (IFH-389FX)		Q509 Q510	8-729-920-74 8-729-920-74		2SC2412K-QR 2SC2412K-QR	
	< CO1			Q511 Q515	8-729-920-74 8-729-216-22		2SC2412K-QR 2SA1162-G	
L101 L102 L201 L306 L307	1-412-546-41 1-408-413-00 1-410-067-21 1-408-405-00	INDUCTOR 22UH INDUCTOR 4.7MMH INDUCTOR 4.7UH	ı	Q516 Q517 Q518	8-729-216-22 8-729-216-22 8-729-920-74	TRANSISTOR TRANSISTOR TRANSISTOR	2SA1162-G 2SA1162-G 2SC2412K-QR	
L307 L308 L501	1-408-405-00 1-408-417-00 1-460-196-11		ZARITY	Q519 Q520 Q521 Q522	8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR TRANSISTOR	2SC2412K-QR 2SC2412K-QR	
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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	N		REMARK
Q524 Q525 Q581 Q582 Q599	8-729-920-74 8-729-901-00 8-729-920-74 8-729-216-22 8-729-920-74	TRANSISTOR 2SC2 TRANSISTOR DTC1 TRANSISTOR 2SC2 TRANSISTOR 2SA1 TRANSISTOR 2SC2	24EK 412K-QR 162-G		JR62 JR63 JR64 JR65	1-216-295-91 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/10W 1/8W 1/8W
-			_		JR66	1-216-296-00	METAL GLAZE	0	5%	1/8W
0611	8-729-900-53	TRANSISTOR DTC1:	14EK		JR67 JR68	1-216-296-00 1-216-296-00	METAL GLAZE	0	5% 5%	1/8W 1/8W
	< RES	SISTOR >			JR69	1-216-296-00	METAL GLAZE	Ö	5%	1/8W
JR1	1-216-296-00	METAL GLAZE 0	5%	1/8W	JR70	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR2 JR3	1-216-296-00 1-216-295-91	METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/8W 1/10W	JR71 JR72	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W
JR4	1-216-296-00	METAL GLAZE 0	5%	1/8W	JR74	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR5	1-216-296-00	METAL GLAZE 0	5%	1/8W	JR75	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR6	1-216-296-00	METAL GLAZE 0	5%	1/8W	JR76	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR7 JR8	1-216-295-91 1-216-296-00	METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/10W 1/8W	JR77 JR78	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W
JR9	1-216-295-91	METAL GLAZE 0	5%	1/10W	JR80	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR10	1-216-295-91	METAL GLAZE 0	5%	1/10W	JR81	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR11	1-216-296-00	METAL GLAZE 0	5%	1/8W	JR82	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR12 JR13	1-216-296-00 1-216-296-00	METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/8W 1/8W	JR83 JR87	1-216-296-00 1-216-295-91	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/10W
JR14	1-216-296-00	METAL GLAZE 0	5%	1/8W	JR100	1-216-073-00	METAL GLAZE	10K	5%	1/10W
JR15	1-216-296-00	METAL GLAZE 0	5%	1/8W	JR103	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR16	1-216-296-00	METAL GLAZE 0	5%	1/8W	JR110	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR17 JR18	1-216-295-91 1-216-295-91	METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/10W 1/10W	JR130 JR234	1-216-295-91 1-216-295-91	METAL GLAZE	0	5%	1/10W
JR19	1-216-295-91	METAL GLAZE 0	5%	1/10W	JR403	1-216-295-91	METAL GLAZE METAL GLAZE	0	5% 5%	1/10W 1/10W
JR21	1-216-296-00	METAL GLAZE 0	- 5%	1/8W	D001			0.00	Fû.	
JR22	1-216-295-91	METAL GLAZE 0	5%	1/10W	R001 R071	1-216-341-11 1-216-041-00		0.22 470	5% 5%	1W F 1/10W
JR23	1-216-295-91	METAL GLAZE 0	5%	1/10W	R072	1-216-033-00		220	5%	1/10W
JR24 JR25	1-216-295-91 1-216-296-00	METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/10W 1/8W	R073 R074	1-216-033-00 1-216-198-91	METAL GLAZE METAL GLAZE	220 1K	5% 5%	1/10W 1/8W
JR26	1-216-295-91	METAL GLAZE 0	5%	1/10W						
JR27	1-216-295-91	METAL GLAZE 0	5%	1/10W	R076 R077	1-216-057-00 1-216-025-00	METAL GLAZE METAL GLAZE	2.2K 100	5% 5%	1/10W 1/10W
JR28	1-216-295-91	METAL GLAZE 0	5%	1/10W	R100	1-216-023-00		100K	5%	1/10W
JR29 JR30	1-216-295-91		5%	1/10W	R101	1-216-025-00	METAL GLAZE	100	5%	1/10W
JR31	1-216-295-91 1-216-295-91	METAL GLAZE 0 METAL GLAZE 0	5% 5 %	1/10W 1/10W	R102	1-216-049-00	METAL GLAZE	1K	5%	1/10W
JR32	1-216-295-91	METAL GLAZE 0	5%	1/10W	R104	1-216-073-00		10K	5%	1/10W
JR33	1-216-295-91		5%	1/10W 1/10W	R105 R106	1-216-073-00 1-216-073-00		10K 10K	5% 5%	1/10W 1/10W
JR34	1-216-296-00		5%	1/8W	R107	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
JR35 JR36	1-216-296-00 1-216-295-91		5% 5%	1/8W 1/10W	R108	1-216-230-00	METAL GLAZE	22K	5%	.1/8W
JR37	1 216 206 00	MEMBE OF LOSS	FO.		R115	1-216-210-00		3.3K		1/8W
JR38	1-216-296-00 1-216-296-00		5% 5%	1/8W 1/8W	R201 R202	1-208-784-11 1-208-784-11				1/10W 1/10W
JR39	1-216-295-91	METAL GLAZE 0	5%	1/10W	R203	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
JR40 JR41	1-216-295-91 1-216-296-00	METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/10W 1/8W	R204	1-216-091-00	METAL GLAZE	56K	5%	1/10W
					R205	1-216-295-91		0	5%	1/10W
JR42 JR43	1-216-296-00 1-216-296-00		5% 5%	1/8W 1/8W	R206 R207	1-216-295-91 1-216-073-00		0 10K	5% 5%	1/10W 1/10W
JR44	1-216-296-00			1/8W	R208	1-216-073-00		10K	5%	1/10W
JR47 JR48	1-216-296-00 1-216-295-91	METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/8W 1/10W	R209	1-249-377-11	CARBON	0.47	5%	1/4W F
					R210	1-247-739-11		100	5%	1/2W
JR54 JR55	1-216-296-00 1-216-296-00		5% 5%	1/8W 1/8W	R211 R212	1-247-739-11		100	5%	1/2W
JR56	1-216-296-00			1/8W	R212 R213	1-216-049-00 1-216-073-00		1K 10K	5% 5%	1/10W 1/10W
JR57	1-216-295-91			1/10W	R214	1-216-049-00		1K	5%	1/10W
JR58	1-216-295-91	METAL GLAZE 0	5%	1/10W	R215	1-216-073-00	METAL GLAZE	10K	5%	1/10W
JR60	1-216-296-00			1/8W	R216	1-216-049-00	METAL GLAZE	1K	5%	1/10W
JR61	1-710-730-00	METAL GLAZE 0	5%	1/8W	R217	1-216-043-91	METAL GLAZE	560	5%	1/10W



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REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		ļ	REMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMA	RK
R218 R221	1-216-081-00 1-212-849-00	METAL GLAZE FUSIBLE	22K 4.7	5% 5%	1/10W 1/4W	F	R321 R322	1-216-039-00 1-216-041-00	METAL GLAZE METAL GLAZE	390 470	5% 5%	1/10W 1/10W	
R222 R223 R224 R225 R226	1-216-049-00 1-216-043-91 1-216-081-00 1-212-849-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE FUSIBLE METAL GLAZE	1K 560 22K 4.7 390	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/10W	F	R324 R325 R326 R328 R329	1-216-049-00 1-216-047-00 1-216-073-00 1-216-029-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 820 10K 150 82	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R227 R228 R229 R230 R231	1-216-081-00 1-216-081-00 1-216-039-00 1-216-097-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 390 100K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R330 R331 R333 R334 R335	1-216-053-00 1-216-097-00 1-216-182-00 1-216-182-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 100K 220 220 100	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W 1/10W	
R232 R233 R234 R235 R236	1-216-081-00 1-216-071-00 1-216-069-00 1-216-073-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 8.2K 6.8K 10K 22K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R336 R337 R338 R339 R340	1-216-295-91 1-216-295-91 1-216-295-91 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 100 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R237 R238 R239 R241 R242	1-216-025-00 1-216-025-00 1-216-295-91 1-216-065-00 1-216-214-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 0 4.7K 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W		R341 R342 R343 R344 R345	1-216-025-00 1-216-033-00 1-216-022-00 1-216-022-00 1-216-022-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 220 75 75 75	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R244 R245 R246 R247 R248	1-216-069-00 1-216-089-00 1-216-097-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 47K 100K 10K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R346 R347 R351 R352 R354	1-216-022-00 1-216-083-00 1-216-073-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 27K 10K 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R249 R250 R251 R252 R253	1-216-045-00 1-216-095-00 1-216-065-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 82K 4.7K 10K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R355 R356 R357 R358 R359	1-216-033-00 1-216-033-00 1-216-041-00 1-216-031-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 470 180 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R254 R255 R256 R257 R258	1-216-252-00 1-216-252-00 1-216-182-00 1-216-182-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180K 180K 220 220 47K	5% 5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/10W		R360 R361 R362 R365 R366	1-216-033-00 1-216-033-00 1-216-077-00 1-216-073-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 15K 10K 5.6K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R259 R260 R300 R301 R302	1-216-049-00 1-216-049-00 1-216-009-00 1-216-041-00 1-216-190-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 22 470 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W		R367 R368 R369 R370 R371	1-216-296-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 220 220 220 220	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	
R303 R304 R305 R306 R307	1-216-174-00 1-216-174-00 1-216-035-00 1-216-035-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 270 270 12K	5% 5% 5% 5%	1/8W 1/8W 1/10W 1/10W 1/10W		R373 R374 R376 R377 R378	1-216-017-00 1-216-041-00 1-216-065-00 1-216-051-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47 470 4.7K 1.2K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R308 R309 R310 R311 R312	1-216-121-00 1-216-001-00 1-216-001-00 1-216-065-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1M 10 10 4.7K 470	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R379 R380 R381 R382 R383	1-216-057-00 1-216-057-00 1-216-164-00 1-216-164-00 1-216-164-00		2.2K 2.2K 39 39 39	5% 5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W 1/8W	
R313 R314 R315 R316 R317	1-216-081-00 1-216-033-00 1-216-033-00 1-216-085-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 220 220 33K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R401 R402 R403 R404 R405	1-216-171-00 1-216-158-00 1-216-025-00 1-216-158-00 1-216-025-00	METAL GLAZE METAL GLAZE	75 22 100 22 100	5% 5% 5% 5%	1/8W 1/8W 1/10W 1/8W 1/10W	
R318 R319 R320	1-216-041-00 1-216-041-00 1-216-174-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 470 100	5% 5% 5%	1/10W 1/10W 1/8W		R406 R407 R408	1-216-158-00 1-216-025-00 1-216-093-00	METAL GLAZE	22 100 68K	5% 5% 5%	1/8W 1/10W 1/10W	

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REF.NO.	PART NO.	DESCRIPTION	<u>M</u>		REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>N</u>		REMARK
R410 R411	1-216-067-00 1-216-067-00	METAL GLAZE METAL GLAZE	5.6K 5.6K	5% 5%	1/10W 1/10W	R552 R553	1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE	10K 2.2K	5% 5%	1/10W 1/10W
R412 R413 R414 R416 R417	1-216-171-00 1-216-171-00 1-216-171-00 1-216-113-00 1-216-063-00	METAL GLAZE METAL GLAZE	75 75 75 470K 3.9K	5% 5% 5% 5% 5%	1/8W 1/8W 1/8W 1/10W 1/10W	R554 R555 R556 R558 R563	1-216-121-00 1-249-421-11 1-216-049-00 1-249-385-11 1-216-097-00	CARBON METAL GLAZE CARBON	1M 2.2K 1K 2.2 100K	5% 5%	1/10W 1/4W F 1/10W 1/4W F 1/10W
R419 R420 R423 R424 R425	1-216-113-00 1-216-063-00 1-216-015-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	470K 3.9K 39 100 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R564 R565 R566 R567 R568	1-216-073-00 1-216-055-00 1-216-045-00 1-216-045-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 1.8K 680 680 680	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R426 R427 R428 R470 R501	1-216-025-00 1-216-025-00 1-249-393-11 1-216-113-00 1-247-895-00	METAL GLAZE CARBON METAL GLAZE	10 470K	5% 5% 5% 5% 5%	1/10W 1/10W 1/4W F 1/10W 1/4W	R569 R570 R571 R572 R573	1-216-055-00 1-216-009-00 1-216-009-00 1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 22 22 1K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R502 R503 R504 R505 R506	1-249-377-11 1-249-377-11 1-249-417-11 1-249-419-11 1-215-920-11	CARBON CARBON CARBON	0.47 1K 1.5K	5% 5% 5% 5% 5%	1/4W F 1/4W F 1/4W 1/4W 3W F	R574 R575 R576 R577 R579	1-216-041-00 1-216-186-00 1-216-025-00 1-216-025-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 330 100 100 6.8K	5% 5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W
R507 R508 R509 R510 R511	1-249-429-11 1-216-372-11 1-216-478-11 1-216-073-00 1-247-811-31	METAL OXIDE METAL OXIDE METAL GLAZE	1.8 390 10K	5% 5% 5% 5% 5%	1/4W F 2W F 3W F 1/10W	R580 R581 R582 R583 R584	1-216-049-00 1-216-033-00 1-216-037-00 1-216-055-00 1-216-039-00	METAL GLAZE	1K 220 330 1.8K 390	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R513 R514 R515 R516 R517	1-216-049-00 1-215-877-11 1-249-430-11 1-249-417-11 1-249-426-11	METAL OXIDE CARBON CARBON	22K 12K 1K	5% 5% 5% 5% 5%	1/10W 1W F 1/4W F 1/4W T	R585 R586 R587 R588 R589	1-216-073-00 1-216-047-00 1-216-047-00 1-216-101-00 1-216-073-00	METAL GLAZE	10K 820 820 150K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R518 R519 R520 R521 R522	1-249-425-11 1-249-417-11 1-215-925-11 1-215-877-11 1-216-057-00	CARBON METAL OXIDE METAL OXIDE	22K	5% 5% 5%	1/4W F 1/4W F 3W F 1W F 1/10W	R590 R591 R592 R593 R594	1-216-049-00 1-216-073-00 1-216-083-00 1-216-071-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 10K 27K 8.2K 3.3K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R523 R524 R525 R526 R527	1-216-083-00 1-216-083-00 1-216-097-00 1-216-067-00 1-249-429-11	METAL GLAZE METAL GLAZE METAL GLAZE	27K 100K 5.6K		1/10W 1/10W 1/10W 1/10W 1/4W	R595 R596 R597 R598 R600	1-208-774-11 1-216-067-00 1-216-230-00 1-216-053-00 1-216-174-00	METAL GLAZE	470 5.6K 22K 1.5K 100	5% 5%	1/10W 1/10W 1/8W 1/10W 1/8W
R528 R531 R532 R533 R536	1-216-059-00 1-216-077-00 1-249-385-11 1-216-033-00 1-216-476-11	METAL GLAZE CARBON METAL GLAZE	15K 2.2 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/4W F 1/10W 3W F	R606 R609 R610 R611 R613	1-216-049-00 1-216-689-11 1-216-049-00 1-216-295-91 1-216-049-00	METAL GLAZE	1K 39K 1K 0 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R537 R540 R541 R542 R543	1-216-476-11 1-216-049-00 1-216-081-00 1-216-081-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 22K 22K	5% 5% 5% 5% 5%	3W F 1/10W 1/10W 1/10W 1/10W	R614 R618 R620 R621 R624	1-216-399-00 1-216-061-00 1-216-065-00 1-216-399-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL OXIDE	6.8 3.3K 4.7K 6.8 10K	5% 5% 5% 5% 5%	3W F 1/10W 1/10W 3W F 1/10W
R544 R545 R546 R547 R548	1-216-049-00 1-216-049-00 1-216-083-00 1-216-067-00 1-216-077-00	METAL GLAZE METAL GLAZE	1K 27K 5.6K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R625 R626 R627 R628 R629	1-216-081-00 1-216-033-00 1-216-033-00 1-215-866-11 1-216-488-11	METAL GLAZE METAL GLAZE METAL OXIDE	22K 220 220 330 18K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1W F 3W F
R549 R550 R551	1-216-073-00 1-249-385-11 1-216-077-00	CARBON	2.2	5% 5% 5%	1/10W 1/4W F 1/10W	R631 R632 R636	1-216-055-00 1-216-051-00 1-216-025-00	METAL GLAZE METAL GLAZE	1.8K 1.2K 100		1/10W 1/10W 1/10W

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REF.NO.	PART NO.	DESCRIPTION		B	REMARK	REF.NO.	PART NO.	DESCRIPTION	N		REMARK
R638 R640	1-216-009-00 1-216-081-00		2 5% 2K 5%	1/10W 1/10W		C151	1-124-477-11	ELECT	47MF	20%	16V
R641 R642 R643 R644 R645	1-216-073-00 1-216-295-91 1-216-073-00 1-215-912-11 1-215-912-11	METAL GLAZE 0 METAL GLAZE 1 METAL OXIDE 1	0K 5% 5% 0K 5% 50 5% 50 5%	-	F	C152 C161 C162 C173 C174	1-124-477-11 1-124-477-11 1-124-477-11 1-163-017-00 1-163-227-11	ELECT ELECT CERAMIC CHIP		20% 20% 20% 10% 0.5PF	16V 16V 16V 50V 50V
R646 R650 R651 R655 R656	1-216-073-00 1-216-055-00 1-216-055-00 1-216-083-00 1-216-089-00	METAL GLAZE 1 METAL GLAZE 1 METAL GLAZE 2	0K 5% .8K 5% .8K 5% 7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C175 C177 C191 C201 C202	1-164-004-11 1-164-232-11 1-164-346-11 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.01MF 1MF 0.01MF	0.5PF 10% 10% 10%	50V 25V 50V 16V 50V
R657 R1520 R2219 R2220 R2221	1-216-238-91 1-249-429-11 1-216-174-00 1-216-174-00 1-216-174-00	CARBON 1 METAL GLAZE 1 METAL GLAZE 1	7K 5% 0K 5% 00 5% 00 5% 00 5%	1/8W 1/4W 1/8W 1/8W 1/8W		C203 C204 C205 C206 C207	1-124-477-11 1-164-346-11 1-164-161-11 1-163-251-11 1-164-222-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0022MF 100PF 0.22MF	20% 10% 5%	16V 16V 50V 50V 25V
R2222	1-216-174-00 < TRA	METAL GLAZE 1	.00 5%	1/8W		C208 C302 C502 C503	1-163-141-00 1-164-232-11 1-124-477-11 1-164-232-11	CERAMIC CHIP ELECT CERAMIC CHIP	0.01MF 47MF	5% 10% 20% 10%	50V 50V 16V 50V
T501		TRANSFORMER, FE				C901	1-124-477-11	ELECT	47MF	20%	16V
T502	1-437-078-00 < TUN	TRANSFORMER, HO	KIZONTAL .	DKTAR		C902	1-163-059-91 < FIL		U.UIMF	10%	50V
TU101		TUNER (UV916H)				CF171	1-567-100-00		ITC		
10101		STAL >				CF172 CF173 CF174	1-567-101-11 1-760-107-21 1-760-106-21	FILTER, CERAN	IIC IIC		
X302 X501		VIBRATOR, CRYST VIBRATOR, CERAM				SWF101	1-579-273-11	FILTER, SURFA	ACE WAVE		
*****	******	***********	******	*****	******	SWF103	1-760-244-21		CE WAVE		
	1-467-573-11	IF BLOCK (IFH-3				OVI		NECTOR >	D /DC BOLEN	\ 10D	
	CAL	ACITOR >				CN1 CN2	1-750-919-11	PIN, CONNECTO			
C101		CERAMIC CHIP 0.	00 <i>47</i> w 2	10%	50V		< TRI	MMER >			
C102 C104 C111	1-164-232-11 1-163-017-00 1-164-004-11	CERAMIC CHIP 0. CERAMIC CHIP 0. CERAMIC CHIP 0.	01MF 0047MF 1MF	10% 10% 10%	50V 50V 25V	CT101 CT131	1-760-154-21 1-409-430-11				
C112		CERAMIC CHIP 47		5%	50V		< DIO				
C113 C114 C115 C116 C117	1-164-489-11 1-124-925-11 1-124-916-11 1-124-916-11 1-163-090-00	ELECT 22	2MF 2MF 2MF	10% 20% 20% 20% 0.25PF	16V 50V 50V 50V 50V	D101 D171 D201	8-719-914-43	DIODE DAN2021 DIODE DAN2021 DIODE DAN2021	K		
C120 C121 C122 C123 C126	1-164-232-11		.01MF	20% 20% 10% 10% 0.25PF	50V 50V 16V 50V 50V	IC1 IC2 IC3 IC4		IC BA7046 IC CXA1875M IC NJM2233BM			
C128		CERAMIC CHIP 0.		10%	16V		< COI				
C131 C132 C133 C134	1-163-097-00 1-163-113-00	CERAMIC CHIP 68 CERAMIC CHIP 15 CERAMIC CHIP 68 CERAMIC CHIP 33	SPF SPF	5% 5% 5% 5%	50V 50V 50V 50V	L101 L102 L131 L132 L142	1-408-419-00 1-410-985-11 1-408-407-00 1-410-426-21 1-408-409-00	INDUCTOR CHIS INDUCTOR INDUCTOR	68UH P 0.22UH 6.8UH 39UH 10UH		
C135 C141 C143 C145		CERAMIC CHIP 82 CERAMIC CHIP 10		20% 5% 5% 20%	16V 50V 50V 16V	L171 L201 L501	1-408-609-41 1-408-419-00 1-408-411-00	INDUCTOR	33UH 68UH 15UH		

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REF.NO.	PART NO.	DESCRIPTION	1	REMARK	REF.NO.	PART NO.	DESCRIPTIO)N		REMARK
L901	1-408-411-00	INDUCTOR	15UH	- 	JR137	1-216-296-91		0	5%	1/8W
		NSISTOR >			JR138			•		1/8W
	< TKA	NOTOTOK >			JR140	1-216-296-91 1-216-296-91		0	5% 5%	1/8W 1/8W
Q101	8-729-104-80	TRANSISTOR 250			JR141	1-216-296-91		Ŏ	5%	1/8W
Q102		TRANSISTOR DTO			JR142	1-216-295-91		0	5%	1/10W
Q104	8-729-901-01				JR143	1-216-296-91	METAL GLAZE	0	5%	1/8W
Q121 Q131	8-729-216-22 8-729-920-74	TRANSISTOR 2SA	11162-G		TD145	1 110 100 01	MOMENT OF SOR	0	P/07	1 /01/
ÖT2T	8-129-920-14	TRANSISTOR 2SO	:2412K-QK		JR145 JR146	1-216-296-91 1-216-295-91		0	5% 5%	1/8W 1/10W
Q132	8-729-920-74	TRANSISTOR 250	2412K-OR		JR150	1-216-295-91	METAL GLAZE	Ŏ	5%	1/10W
Q141	8-729-920-74	TRANSISTOR 250	2412K-OR		JR152	1-216-296-91		ŏ	5%	1/8W
Q142	8-729-920-74	TRANSISTOR 2SO	2412K-QR		JR154	1-216-296-91		0	5%	1/8W
Q151	8-729-920-74	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC	2412K-QR							
Q152	8-729-920-74	TRANSISTOR 2SO	C2412K-QR		JR160	1-216-296-91		0	5%	1/8W
Q153	8-729-920-74	TRANSISTOR 2SO	72/12K_0P		JR161 JR162	1-216-295-91 1-216-295-91		0	5% 5%	1/10W 1/10W
Q153 Q154	8-729-901-01	TRANSISTOR DTO	1144RK	5	JR166	1-216-295-91		0	5%	1/10W
Q161	8-729-920-74	TRANSISTOR 250	2412K-OR	•	JR167	1-216-296-91		ŏ	5%	1/8W
Q162	8-729-920-74	TRANSISTOR 2SO	C2412K-QR	·						
Q171	8-729-216-22	TRANSISTOR 25	A1162-G		R100	1-216-025-00		100	5%	1/10W
0174	0 700 001 01	mniveremen nm	11 4 4 900		R102	1-216-059-00		2.7K	5%	1/10W
Q174 Q175	8-729-901-01	TRANSISTOR DTO	7144RK		R103 R104	1-216-001-00 1-216-176-11		10 120	5% 5%	1/10W 1/8W
Q176	8-729-901-01	TRANSISTOR DTO	1144EK		R105	1-216-017-00		47	5%	1/10W
Q181	8-729-920-74	TRANSISTOR 250	2412K-OR		*****	1 210 01, 00	MDINE CENSE	• /	3.0	1/1011
Q191	8-729-216-22	TRANSISTOR 25	A1162-G		R106	1-216-057-00		2.2K	5%	1/10W
					R107	1-216-057-00		2.2K	5%	1/10W
Q201	8-729-216-22	TRANSISTOR 2S	A1162-G		R109	1-216-057-00		2.2K	5%	1/10W
	2 DPC	SISTOR >			R111 R113	1-216-295-91 1-216-031-00		0 180	5% 5 %	1/10W 1/10W
	C KES	ISION >			KTT2	1-210-031-00	METAL GLAZE	100	3%	1/10W
JR101	1-216-295-91	METAL GLAZE	0 5%	1/10W	R114	1-216-035-00	METAL GLAZE	270	5%	1/10W
JR102	1-216-296-91		0 5%	1/8W	R115	1-216-035-00	METAL GLAZE	270	5%	1/10W
JR103	1-216-296-91		0 5%	1/8W	R116	1-216-025-00		100	5%	1/10W
JR104 JR106	1-216-295-91 1-216-296-91		0 5% 0 5%	1/10W 1/8W	R117 R118	1-216-031-00 1-216-061-00		180 3.3K	5% 5%	1/10W
ONTOO	1-210-250-51	MEIAU GUAZE	0 5%	1/04	VITO	1-210-001-00	METAL GLAZE	3.31	24	1/10W
JR107	1-216-295-91	METAL GLAZE	0 5%	1/10W	R120	1-216-180-00	METAL GLAZE	180	5%	1/8W
JR109	1-216-295-91		0 5%	1/10W	R131	1-216-198-91		1K	5%	1/8W
JR110	1-216-295-91		0 5%	1/10W	R133	1-216-031-00		180	5%	1/10W
JR111 JR112	1-216-296-91		0 5%	1/8W	R134	1-216-049-00		1K	5%	1/10W
UKIIZ	1-216-295-91	METAL GLAZE	0 5%	1/10W	R135	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR113	1-216-296-91	METAL GLAZE	0 5%	1/8W	R136	1-216-041-00	METAL GLAZE	470	5%	1/10W
JR114	1-216-295-91		0 5%	1/10W	R137	1-216-041-00		470	5%	1/10W
JR115	1-216-295-91		0 5%	1/10W	R138	1-216-049-00		1K	5%	1/10W
JR116	1-216-296-91		0 5%	1/8W	R139	1-216-067-00		5.6K	5%	1/10W
JR117	1-216-296-91	METAL GLAZE	0 5%	1/8W	R140	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR118	1-216-296-91	METAL GLAZE	0 5%	1/8W	R142	1-216-049-00	METAL GLAZE	1K	5%	1/10W
JR119	1-216-296-91	METAL GLAZE	0 5%	1/8W	R144	1-216-041-00		470	5%	1/10W
JR120	1-216-295-91		0 5%	1/10W	R145	1-216-041-00	METAL GLAZE	470	5%	1/10W
JR121	1-216-296-91		0 5%	1/8W .	R146	1-216-043-00		560	5%	1/10W
JR122	1-216-296-91	METAL GLAZE	0 5%	1/8W	R147	1-216-025-00	METAL GLAZE	100	5%	1/10W
JR123	1-216-296-91	METAL GLAZE	0 5%	1/8W	R148	1-216-049-00	METAL GLAZE	1K	5%	1/10W
JR124	1-216-296-91		0 5%	1/8W	R149	1-216-049-00		1K	5%	1/10W
JR125	1-216-295-91		0 5%	1/10W	R151	1-216-226-00		15K	5%	1/8W .
JR126	1-216-295-91		0 5%	1/10W	R152	1-216-069-00		6.8K	5%	1/10W
JR127	1-216-296-91	METAL GLAZE	0 5%	1/8W	R153	1-216-689-11	METAL GLAZE	39K	5%	1/10W
JR128	1-216-295-91	METAL GLAZE	0 5%	1/10W	R154	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
JR129	1-216-295-91	METAL GLAZE	0 5%	1/10W	R155	1-216-057-00			5%	1/10W
JR130	1-216-296-91		0 5%	1/8W	R156	1-216-037-00	METAL GLAZE	330	5%	1/10W
JR131	1-216-296-91		0 5%	1/8W	R161	1-216-079-00		18K	5%	1/10W
JR132	1-216-296-91	METAL GLAZE	0 5%	1/8W	R162	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
JR133	1-216-296-91	METAL GLAZE	0 5%	1/8W	R163	1-216-689-11	METAL GLAZE	39K	5%	1/10W
JR134	1-216-295-91		0 5%	1/10W	R164	1-216-057-00			5%	1/10W
JR135	1-216-296-91		0 5%	1/8W	R165	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
JR136	1-216-295-91	METAL GLAZE	0 5%	1/10W	R166	1-216-037-00	METAL GLAZE	330	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTIO)N		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R167	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C018	1-164-505-11	CERAMIC CHIP 2.2MF		16V
24.60						C019	1-124-916-11		20%	50V
R168 R169	1-216-212-00		3.9K		1/8W	C020	1-163-117-00		5%	50 v
R171	1-216-067-00 1-216-045-00	METAL GLAZE METAL GLAZE	5.6K 680	5% 5%	1/10W	C022		CERAMIC CHIP 0.1MF	10%	25 V
R177	1-216-025-00		100	5%	1/10W 1/10W	C023	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
R178	1-216-057-00		2.2K	5%	1/10W	C024	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
				-	_,,	C025	1-164-222-11	CERAMIC CHIP 0.22MF	100	25V
R179	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C026	1-164-222-11			25V
R180	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C032	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
R181	1-216-041-00	METAL GLAZE	470	5%	1/10W	C035	1-163-033-91	CERAMIC CHIP 0.022MF		50V
R182 R183	1-216-041-00	METAL GLAZE	470	5%	1/10W					
VT02	1-216-192-00	METAL GLAZE	560	5%	1/8W	C036	1-164-005-11			25V
R184	1-216-043-00	METAL GLAZE	560	5%	1/10W	C037	1-163-117-00 1-163-011-11	CERAMIC CHIP 100PF CERAMIC CHIP 0.0015MF	5%	50V
R185	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	C042	1-162-638-11		10%	50V 16V
R191	1-216-093-00	METAL GLAZE	68K	5%	1/10W	C044	1-163-117-00		5%	50V
R192	1-216-093-00	METAL GLAZE	68K	5%	1/10W			O=102100 OHZ2 20021	3.0	501
R193	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C522	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V
D104	1 016 040 00				4.44.0	C523	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V
R194	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C524	1-163-113-00		5%	50V
R195 R201	1-216-216-00 1-216-198-91	METAL GLAZE		5%	1/8W	C525	1-164-222-11	CERAMIC CHIP 0.22MF		25V
R202	1-216-198-91	METAL GLAZE	1K 270K	5% 5%	1/8W	C528	1-163-105-00	CERAMIC CHIP 33PF	5%	50V
R203	1-216-073-00	METAL GLAZE	10K	5%	1/10W 1/10W	C529	1 163 160 00	CERTAL COLD 22DE	=0	
	1 110 0/3 00	METAD GEAGE	IUK	74	1/10#	C541	1-163-169-00 1-164-232-11	CERAMIC CHIP 33PF CERAMIC CHIP 0.01MF	5% 10%	50V 50V
R204	1-216-113-00	METAL GLAZE	470K	5%	1/10W .	C542	1-163-037-11		10%	25V
R205	1-218-755-11	METAL CHIP		0.50%		C543	1-164-161-11		10%	50V
R206	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C544	1-164-161-11		10%	50V
R207	1-216-113-00	METAL GLAZE		5%	1/10W					•••
R208	1-216-113-00	METAL GLAZE	470K	5%	1/10W	C546	1-164-004-11		10%	25Ÿ
R209	1 216 040 00	When y or you	4 ==	F0.	4.14.000	C547	1-163-020-00	CERAMIC CHIP 0.0082MF	10%	50V
R210	1-216-049-00 1-216-081-00	METAL GLAZE METAL GLAZE	1K 22K	5%	1/10W	C549	1-163-989-11		10%	25V
R211	1-216-073-00	METAL GLAZE	10K	5% 5%	1/10W 1/10W	C550 C559	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V
R301	1-216-073-00	METAL GLAZE	10K	5%	1/10W	(333	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
R302	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C560	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50 V
					-,	C563	1-163-031-11		104	50V
R303	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C564	1-163-031-11			50V
R306	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C565	1-163-031-11	CERAMIC CHIP 0.01MF		50 V
R308	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C566	1-163-031-11	CERAMIC CHIP 0.01MF		50V
R309 R310	1-216-025-00	METAL GLAZE	100	5%	1/10W	05.55	4 400 000 44			
KOTO	1-216-025-00	METAL GLAZE	100	5%	1/10W	C567	1-163-009-11		10%	50 V
	< VAR	LIABLE RESISTO	R 、			C568 C569	1-163-009-11		10%	50V
						C570		CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.33MF	10% 10%	50V 16V
RV111	1-241-786-11	RES, ADJ, CAL	RBON 22F	ζ		C571		CERAMIC CHIP 0.1MF	10%	25V
RV112	1-241-765-11	RES, ADJ, CAI	RBON 22F	ζ		00.2		Chianto curi attu		234
						C2001	1-163-235-11	CERAMIC CHIP 22PF	5%	50V
	< TRA	NSFORMER >			*	C2002	1-163-235-11	CERAMIC CHIP 22PF	5%	50 v
T111	1-403-686-22	COTT				C2004	1-164-222-11	CERAMIC CHIP 0.22MF		25V
1111	1-403-000-22	COIL				C2005	1-163-038-91	CERAMIC CHIP 0.1MF		25V
******	******	*******	******	*****	*********	C2008	1-104-222-11	CERAMIC CHIP 0.22MF		25V
						C2016	1-164-222-11	CERAMIC CHIP 0.22MF		25V
	*A-1635-029-A	M2 BOARD, COM	MPLETE			C2017	1-164-222-11	CERAMIC CHIP 0.22MF		25V
		*********	*****			C2018	1-164-505-11	CERAMIC CHIP 2.2MF		16V
						C2019	1-124-916-11	ELECT 22MF	20%	50V
	< CAP	ACITOR >				C2020	1-164-222-11	CERAMIC CHIP 0.22MF		25 V
C001	1-163-117-00	CERAMIC CHIP	10000		% 50V	72021	1 162 112 ^^	GEDINTA OUTS CASE	F 0	
C004	1-164-222-11	CERAMIC CHIP	0.22MF	2	25V	C2021 C2024	1-163-113-00	CERAMIC CHIP 68PF CERAMIC CHIP 100PF	5% 5%	50V
C007		CERAMIC CHIP		6	% 50V	C2025	1-163-117-00	CERAMIC CHIP 100PF	5% 5%	50V 50V
C008	1-163-117-00	CERAMIC CHIP	100PF		% 50V	C2027	1-164-222-11	CERAMIC CHIP 100PF	34	25V
C010		CERAMIC CHIP			% 50V			OHLL V. LEPH		234
***							< FIL	TER >		
C011		CERAMIC CHIP			% 50V					
C012 C014	1-163-11/-00	CERAMIC CHIP CERAMIC CHIP	100PF		5% 50V	CD001	1-579-126-11	VIBRATOR, CERAMIC		
C014	1-163-117-00	CERAMIC CHIP	0 001ME		% 50V % 50V		. 000	NTPOMOD .		
C017	1-164-222-11	CERAMIC CHIP	0.22MF	5	25V		< CON	NECTOR >		
						CN1413	1-695-301-11	CONNECTOR, BOARD TO BOA	RD 40P	
							AA		102	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
CN1426 CN1432 CN1435	*1-568-881-51 *1-568-882-51 *1-568-881-51	DESCRIPTION PIN, CONNECTOR 6P PIN, CONNECTOR 7P PIN, CONNECTOR 7P PIN, CONNECTOR 6P DIODE MA3039H DIODE MA3030-H DIODE MA3030-H DIODE DAP202K DIODE DAP202K C SDA30C163-2GEG IC TMS27PC010A15FMAE230 SOCKET, PLCC; IC002 IC CXD2018Q IC LM358D IC LM78L05ACZ IC SDA5273P-C22-GEG IC MB81C4256A-70PSZG IL > INDUCTOR 100H INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 2.2MMH INDUCTOR 82UH		R020 R021 R022	1-216-049-00 1-216-065-00 1-216-057-00	METAL GLAZE	1K 4.7K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W
	< DIC	DDE >		R023 R024	1-216-025-00 1-216-025-00	METAL GLAZE	100 100	5% 5%	1/10W 1/10W
D001	9_719_027_92	DIODE MYSUSOR		BUSE	1-216-049-00	Memai Ciare	10	E@	1 /1 0w
D2001	8-719-036-58	DIODE MASO39H		R025	1-216-049-00		1K 1K	5% 5%	1/10W 1/10W
D2003	8-719-914-44	DIODE DAP202K		R027	1-216-049-00	METAL GLAZE	1K	5%	1/10W
D2007	8-719-914-44	DIODE DAP202K		R028	1-216-677-11 1-216-049-00		12K		1/10W
	< IC	>	•	UCON .	1-210-049-00	METAL GLAZE	1K	5%	1/10W
70001	0 750 004 04	TO 001200162 Acms		R032	1-216-049-00		1K	5%	1/10W
IC001 IC002	8-759-294-04	IC SDAJUCI63-2GEG IC TMS27PC010A15FMAR230		R033	1-216-049-00 1-216-057-00	METAL GLAZE	1K 2.2K	5% 5%	1/10W 1/10W
	1-750-797-11	SOCKET, PLCC ; IC002		R035	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
IC561	8-752-347-92	IC CXD2018Q		R038	1-216 -073-00	METAL GLAZE	10K	5%	1/10W
IC562	8-/39-998-98	TC 1M358D		R049	1-216-049-00	METAL GLAZE	1K	5%	1/10W
IC563	8-759-991-41	IC LM78L05ACZ		R050	1-216-073-00	METAL GLAZE	10K	5%	1/10W
IC2002	8-759-262-58	IC SDA5273P-C22-GEG		R051	1-216-081-00		22K	5%	1/10W
IC2003	8-/59-188-60	1C MB81C4256A-/UPSZG		R052 R053	1-216-073-00 1-216-065-00		10K 4.7K	5% 5%	1/10W 1/10W
	< COI	IL >		******	2 220 003 00		****		
L001	1_409_421_00	TWINICEOP 100mm		R054	1-216-081-00		22K	5%	1/10W
L561	1-408-409-00	INDUCTOR 1000H		R060	1-216-081-00 1-216-057-00		22K 2.2K	5% 5%	1/10W 1/10W
L562	1-408-409-00	INDUCTOR 10UH		R067	1-216-043-91	METAL GLAZE	560	5%	1/10W
L563 L2001	1-408-947-00 1-410-674-31	INDUCTOR 2.2MM INDUCTOR 82UH		R068	1-216-043-91	METAL GLAZE	560	5%	1/10W
22002	1 110 0/1 31	INDUCTOR VAUL		LOO2	1-210-03/-00		330	5%	1/10W
	< TRA	ANSISTOR >		R071	1-216-198-91		1K	5%	1/8W
Q002	8-729-216-22	TRANSISTOR 2SA1162-G		R535 R536	1-216-057-00 1-216-057-00		2.2K 2.2K	5% 5%	1/10W 1/10W
Q003	8-729-920-74	TRANSISTOR 2SC2412K-QR		R538	1-216-025-00		100	5%	1/10W
Q564	8-729-216-22	TRANSISTOR 2SA1162-G		7520	4 046 658 44		4 000		4 /4 000
Q565 Q566		TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		R539 R541	1-216-657-11 1-216-049-00		1.8K 1K	0.50% 5%	1/10W 1/10W
				R542	1-216-025-00		100	5%	1/10W
Q567	8-729-901-01	TRANSISTOR DTC144EK		R544	1-216-085-00		33K	5%	1/10W
Q2001 Q2002	8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		R545	1-216-033-00	METAL GLAZE	220	5%	1/10W
Q2003	8-729-216-22	TRANSISTOR 2SA1162-G		R546	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
Q2004	8-729-920-74	TRANSISTOR 2SC2412K-QR		R547	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
Q2005	8-729-920-74	TRANSISTOR 2SC2412K-OR		R551 R552	1-216-049-00 1-216-097-00		1K 100K	5% 5%	1/10W 1/10W
Q2006	8-729-901-01			R553	1-216-097-00		33K	5%	1/10W
Q2008	8-729-901-00								
	- DEC	SISTOR >		R559 R560	1-216-049-00 1-216-073-00		1K 10K	5% 5%	1/10W 1/10W
	1100	715101()		R564	1-216-091-00		56K	5%	1/10W
JR551	1-216-295-91		1/10W	R565	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
JR553 JR557	1-216-295-91 1-216-295-91		1/10W 1/10W	R566	1-216-073-00	METAL GLAZE	10K	5%	1/10W
				R567	1-216-085-00		33K	5%	1/10W
R001	1-216-025-00		1/10W	R568	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R002 R003	1-216-025-00 1-216-049-00		1/10W 1/10W	R570 R571	1-216-049-00 1-216-073-00		1K 10K	5% 5%	1/10W 1/10W
R004	1-216-049-00		1/10W	R2001	1-216-065-00		4.7K	5%	1/10W
R005	1-216-295-91	METAL GLAZE 0 5%	1/10W						
R007	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R2002 R2003	1-216-043-91 1-216-065-00		560 4.7K	5% 5%	1/10W 1/10W
R008	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R2004	1-216-037-00		330	5%	1/10W 1/10W
R010	1-216-049-00		1/10W	R2005	1-216-041-00	METAL GLAZE	470	5%	1/10W
R011 R012	1-216-049-00 1-216-049-00		1/10W 1/10W	R2007	1-216-073-00	METAL GLAZE	10K	5%	1/10W
	T 510-047-00	.minn Onunn IV 34	T/ TVM	R2008	1-216-025-00	METAL GLAZE	100	5%	1/10W
R014	1-216-049-00		1/10W	R2009	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R016 R017	1-216-045-00 1-216-049-00		1/10W 1/10W	R2010 R2011	1-216-025-00		100	5% 5%	1/10W
R018	1-216-041-00		1/10W	R2011	1-216-057-00 1-216-631-11		2.2K 150	5% 0.50%	1/10W 1/10W
R019	1-216-025-00		1/10W						
				•					

The components identified by shading and marked r, are critical for safety.
Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>DN</u>		REMARK	
R2013 R2014	1-216-631-11 1-216-631-11			50% 1/10 50% 1/10		C662	1-126-943-11	BLECT	2200MF	20%	25V	
R2017	1-216-081-00		22K 5%			C663	1-126-943-11	ELECT	2200MF	20%	25 v	
R2018	1-216-081-00	METAL GLAZE	22K 5%			C664	1-126-943-11		2200MF	20%	25V	
R2019	1-216-081-00	METAL GLAZE	22K 5%			C665	1-126-943-11		2200MF	20%	25V	
						C666	1-126-943-11		2200MF	20%	25V	
R2020	1-216-057-00	METAL GLAZE	2.2K 5%	1/10	A .	C667	1-126-943-11		2200MF	20%	25V	
R2021	1-216-057-00	METAL GLAZE	2.2K 5%				710 14	22201	220022	20.0	231	
R2022	1-216-033-00	METAL GLAZE	220 5%	•		C669	1-124-907-11	RI.ROT	10MF	20%	50V	
R2023	1-216-025-00	METAL GLAZE	100 5%			C670	1-102-002-00		680PF	10%	500V	
R2025	1-216-063-00	METAL GLAZE	3.9K 5%			C671	1-102-002-00		680PF	10%	500V	
	1 410 000 00	WILLIAM OTHERS	3.34 30	1/10	•	C672	1-102-002-00					
R2026	1-216-065-00	METAL GLAZE	4.7K 5%	1/10	ar .	C673			680PF	10%	500V	
R2030	1-216-295-91		0 5%			C0/3	1-102-002-00	CERAMIC	680PF	10%	500V	
R2032	1-216-049-00	METAL GLAZE	1K 5%	-,		C674	1-124-480-11	DI DAM	47010	2.00	0.5**	
R2036	1-216-049-00	METAL GLAZE	1K 5%						470MF	20%	25 V	
R2037	1-216-049-00	METAL GLAZE	1K 5%			C675	1-124-907-11		10MF	20%	50V	
NAU31	1-210-043-00	METAL GRAZE	TV 24	1/10	М	C680	1-124-478-11		100MF	20%	25V	
R2039	1-216-041-00	METAL GLAZE	470 FO.	4 /4 0		C681	1-124-910-11		47MF	20%	50 v	
R2040	1-216-041-00		470 5%	-,		C1802	1-162-599-12	CERAMIC	0.0047MF	20%	400V	
K2090	1-210-055-00	METAL GLAZE	1.8K 5%	1/10	N	61003	1 150 500 10	ADD 11/24	0.004505		400	
	- anti	rams v				C1803	1-162-599-12		0.0047MF	20%	400V	
	< CRY	STAL >				C1804	1-125-555-11		330MF	20%	400V	
******	4						1-162-578-51		0.0047MF	20%	400V	
X2001	1-579-965-21	VIBRATOR, CR	YSTAL				1-162-578-51	CERAMIC	0.0047MF	20%	400V	
						C1816 1	1-136-519-12	FILM	0.47MF	20%	300V	
******	*********	*******	*******	******	******							
							1-136-519-12	FILM	0.47MF	20%	300V	,
	*A-1637-002-A					C1820	1-162-599-12		0.0047MF	20%	400V	
		*******	****			C1821	1-162-599-12	CERAMIC	0.0047MF	20%	400V	
	< CAP	PACITOR >					< CON	NECTOR >				
C600		ELECT (BLOCK)	10000	20%	40077	ON1 COE			0D 4D			
C601	1-130-202-00				400V	CN1605	*1-568-879-11					
C605		FILM	0.022MF	10%	400V	CN1627	*1-564-512-11					
	1-124-910-11	ELECT	47MF	20%	50V	CN1628	*1-568-882-51					
C608	1-124-903-11	ELECT	1MF	20%	50V	CN1652	1-564-511-11					
C611	1-102-002-00	CERAMIC	680PF	10%	500V	CN1653	*1-568-879-11	PIN, CONNECT	OR 4P			
0510	1 100 101 00	******										
C612	1-130-481-00	FILM	0.0068MF	5%	50V	CN1654	1-766-278-21	PIN, CONNECT	OR (PC BOAR	D) 5P		
C613	1-129-722-00	FILM	0.047MF	10%	630 V	CN1655	1-508-786-00					
C617	1-162-116-00	CERAMIC	680PF	10%	2KV	CN1656	1-508-786-00	PIN, CONNECT	OR (5MM PIT	CH) 2P		
C618	1-162-115-00	CERAMIC	330PF	10%	2KV	CN1661	1-695-915-11	TAB (CONTACT)			
C619	1-102-002-00	CERAMIC	680PF	10%	500V	CN1857	1-508-786-00	PIN, CONNECT	OR (5MM PIT	CH) 2P		
C620	1-130-772-00	FILM	0.22MF	5%	63V	CN1858 *	*1-580-689-11	PIN, CONNECT	OR (PC BOAR	D) 4P	4.32	
C621	1-124-347-00	ELECT	100MF	20%	160 V		*1-580-689-11					,
C622	1-124-347-00	ELECT	100MF	20%	160V		*1-580-689-11				Same and the same and	
C623	1-126-800-51	ELECT	2200MP	20%	25V	CN1861	1-508-784-00					1
C624	1-124-347-00	ELECT	100MF	20%	160V		2 300 102 00	III/ COMMECT	ON (3121 111	CII) II		
							< DIO	DE >				
C625	1-126-183-11		1000MF	20%	16V		A 844 ACT 11					
C626	1-126-800-51		2200MF	20%	25V	D602	8-719-302-43					
C627	1-137-365-11		0.0015MF	5%	50 V	D603	8-719-029-04	DIODE D5L60				
C628	1-124-910-11	ELECT	47MF	20%	50V		*4-389-343-11	SPRING, IC;	D603			
C629	1-124-907-11	ELECT	10MF	20%	507	D604	8-719-029-04					
							*4-389-343-11		D604			
C632	1-137-372-11	FILM	0.022MF	5%	50V							
C633	1-137-419-11	FILM	0.033MF	5%	63V	D606	8-719-302-43	DIODE EL1Z				
C636	1-130-777-00		0.1MF	5%	63V	D608	8-719-300-33					
C640	1-124-916-11		22MF	20%	50V	D610	8-719-970-39					
C643	1-162-116-00		680PF	10%	2KV	DOIL	*4-389-343-11	SPRING, IC;				
0010	2 102 110 00	CHIGHTE	00011	10.0	21/4		4-203-242-11	SPRING, IC;	DOTO			
C650	1-102-002-00	CERAMIC	680PF	10%	500V	D611	8-710-510-41	DIODE D10SC9	w			
C651	1-124-480-11		470MF	20%	25V	DOLL						
C653	1-124-478-11					DC10	*4-389-343-11					
			100MF	20%	25V	D612	8-719-510-09					
C654	1-124-907-11		10MF	20%	50V	2000	*4-389-343-11					
C655	1-124-120-11	ELECT	220MF	20%	16V	D613	8-719 - 300-33	DIODE RU-3AM				
C658	1-126-943-11	ELECT	2200MF	20%	25 V	D614	8-719-510-41	DIODE DIOCCO	w			
C659	1-124-478-11		100MF	20%	25 V	2014	*4-389-343-11					
C660	1-126-943-11		2200MF	20%	25V	D615	8-719-975-76		DOTE			
C661	1-124-478-11	ELECT	100MF	20%	25V 25V	D616	8-719-923-78		2			
	T THE BIOLET	20001	TOOPE	400	474	POTO	0-173-343-18	DIONE WING-1	4			

The components identified by shading and marked ! are critical for safety.

Replace only with the part number specified.



REFNOL PARTINOL DESCRIPTION REMARK REFNOL PARTINOL DESCRIPTION REMARK										
Selig	REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION)N		REMARK
\$\frac{1}{2} = \frac{1}{2} -	D617	8-719-110-03	DIODE RD7.5ESB2			< TRA	NSISTOR >			
4-389-341-11 SPRING, IC 1062 5031 8-739-391-33 DICOR ISS133 5044 8-729-391-33 DICOR ISS133 5054 8-729-391-33 DICOR ISS133 5058 8-729-391-39 DICOR ISS133 5059 8-729-391-39 DICOR ISS133 5050 8-729-391-39 DICOR ISS133 5050 8-729-391-39 DICOR GPRBD 5051 8-729-390-33 DICOR GPRBD 5054 8-729-390-39 DICOR GPRBD 5055 8-729-390-39 DICOR GPRBD 5055 8-729-390-39 DICOR GPRBD 5056 8-729-390-39 DICOR GPRBD 5057 8-729-390-39 DICOR GPRBD 5058 8-729-390-39 DICOR GPRBD 5058 8-729-390-39 DICOR GPRBD 5058 8-729-300-39 DICOR GPRBD 5059 8-729-390-39 DICOR GPRBD 5050 8-729-300-39 DICOR GP	D620 D621	8-719-901-33 8-719-510-41 *4-389-343-11	DIODE 1SS133 DIODE D10SC9M SPRING, IC; D621		Q611	4-200-001-11 4-201-023-11 8-729-119-78	HOLDER, IC; SPACER, INSUITANSISTOR 2	Q601 LATING ; Q601 SC2785-HFE		
Design 1-19-908-03 DIOSE GROUD Q623 8-729-119-76 TRANSISTOR ZEALITS-HEE Design 1-19-908-03 DIOSE GROUD Q629 8-729-378-84 TRANSISTOR ZEALITS-HEE Design 2-79-908-03 DIOSE GROUD Q629 8-729-178-908-03 DIOSE GROUD Q629 R604 1-248-425-11 CARBON 4.7% 5% 1.4% 1.2% 1.249-425-11 CARBON 4.7% 5% 1.4% 1.249-19-908-03 DIOSE GROUD Q629 R604 1-248-425-11 CARBON 8.2 5% 1.4% 1.2% 1.249-339-11 CARBON 8.2 5% 1.4% 1.249-423-11 CARBON 8.2 5% 1.4% 1	D623 D634	*4-389-343-11 8-719-901-33 8-719-901-33	SPRING, IC; D622 DIODE 1SS133 DIODE 1SS133		Q618 Q620	*4-389-343-11 8-729-119-78 8-729-119-78	SPRING, IC; TRANSISTOR 2: TRANSISTOR 2:	Q614 SC2785-HFE SC2785-HFE		
D659	D653 D654 D655	8-719-908-03 8-719-908-03 8-719-908-03	DIODE GP08D DIODE GP08D DIODE GP08D		Q623	8-729-119-76 8-729-378-84	TRANSISTOR 2	SA1175-HFE		
1-576-232-21 FUSE (R.B.C.) 5A/250V MINISTER R609 A 1-215-286-51 MERAL OXIDE 33K 54 34N F R609 A 1-249-392-11 CARBON 120K 54 1/4W R610 1-247-881-00 CARBON 120K 54 1/4W R610 1-247-881-00 CARBON 120K 54 1/4W R612 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH R614 1-247-897-11 CARBON 560K 54 1/4W R612 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH R614 1-247-897-11 CARBON 390K 54 1/4W R614 1-246-485-11 MERAL OXIDE 5.6K 54 3W F R615 1-216-485-11 MERAL OXIDE 5.6K 54 3W F R615 1-216-485-11 MERAL OXIDE 5.6K 54 3W F R616 R61	D658 D659 D660	8-719-908-03 8-719-908-03 8-719-923-78	DIODE GP08D DIODE GP08D DIODE MTZJ-12		R602 R604 R605	1-249-425-11 1-214-921-00 1-249-392-11	CARBON CARBON CARBON	4.7K 5% 220K 5% 8.2 5%	1/4W 1/2W 1/4W	
F8607		1-576-232-21	FUSE (H.B.C.) 5A/250)V	R608 A R609 R610	1-215-926-51 1-249-392-11 1-247-881-00	METAL OXIDE CARBON CARBON	33K 5% 8.2 5% 120K 5%	3W 1/4W 1/4W	F
1C601	FB612	1-410-397-21 1-410-397-21 1-410-397-21	FERRITE BEAD INDUCTO FERRITE BEAD INDUCTO FERRITE BEAD INDUCTO	OR 1.1UH	R612 R613 R614 R615	1-247-897-11 1-247-893-11 1-216-485-11 1-216-485-11	CARBON CARBON METAL OXIDE METAL OXIDE	560K 5% 390K 5% 5.6K 5% 5.6K 5%	1/4W 1/4W 3W 3W	F
L601 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH R626 1-215-405-00 METAL 220 1% 1/4W L602 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH R626 1-249-410-11 CARBON 270 5% 1/4W L603 1-459-862-11 COIL, CHOKE 90UH R629 1-215-460-00 METAL 43K 1% 1/4W L604 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH L606 1-459-862-11 COIL, CHOKE 90UH R632 1-249-409-11 CARBON 220 5% 1/4W L609 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH R634 1-215-477-00 METAL 220K 1% 1/4W L610 1-410-397-21 FERRITE BEAD INDUCTOR 0.45UH R634 1-215-477-00 METAL 220K 1% 1/4W L611 1-412-540-31 INDUCTOR 180UH R635 1-247-863-91 CARBON 22K 5% 1/4W L611 1-412-533-21 INDUCTOR 47UH R635 1-247-863-91 CARBON 22K 5% 1/4W L622 1-412-533-21 INDUCTOR 47UH R637 1-247-895-00 CARBON 470K 5% 1/4W L623 1-412-533-21 INDUCTOR 47UH R637 1-247-895-00 CARBON 10K 5% 1/4W L623 1-412-533-21 INDUCTOR 47UH R639 1-249-423-11 CARBON 3.3K 5% 1/4W L628 1-412-533-21 INDUCTOR 47UH R639 1-249-423-11 CARBON 3.3K 5% 1/4W R649 1-249-423-11 CARBON 0.47 5% 1/4W R649 1-249-423-11 CARBON 3.9K 5% 1/4W R649 1-249-424-11 CARBON 3.9K 5% 1/4W R649 1-249-424-11 CARBON 5.6K 5% 1/4W R659 1-249-424-11 CARBON 5.6K 5% 1/4W R659 1-249-424-11 CARBON 5.6K 5% 1/4W R659 1-249-421-11 CARBON 5.6K 5% 1/4W F669 1-249-421-11 CARBON 5.6K 5% 1/4W F66	IC602 IC603 /t.	8-759-073-29 8-759-908-15 8-749-923-44 8-759-708-05	IC TDA4605-3 IC TL431CLP IC SFH617G-1 IC NJM78L05A	· · · · · · · · · · · · · · · · · · ·	R617 R619 R620 R621	1-249-409-11 1-216-444-11 1-249-415-11 1-215-431-00	CARBON METAL OXIDE CARBON METAL	220 5% 82K 5% 680 5% 2.7K 1%	1/4W 1W 1/4W 1/4W	F
L609 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH L610 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH L611 1-412-540-31 INDUCTOR 180UH L621 1-412-533-21 INDUCTOR 47UH L622 1-412-533-21 INDUCTOR 47UH L623 1-412-533-21 INDUCTOR 47UH L623 1-412-533-21 INDUCTOR 47UH L624 1-412-533-21 INDUCTOR 47UH C LINE FILTER > C LINE FILTER > C LINE FILTER > LF1801 1-424-436-11 TRANSFORMER, LINE FILTER LF1802 1-424-436-11 TRANSFORMER, LINE FILTER LF1803 1-424-436-11 TRANSFORMER, LINE FILTER C IC LINK > C IC LINK > R634 1-215-477-00 METAL 220K 1% 1/4W R636 1-215-890-11 METAL OXIDE 470 5% 2W F R637 1-247-895-00 CARBON 470K 5% 1/4W R639 1-249-423-11 CARBON 3.3K 5% 1/4W R640 1-216-362-11 METAL OXIDE 0.27 5% 2W F R642 1-249-423-11 CARBON 3.3K 5% 1/4W R643 1-249-423-11 CARBON 0.47 5% 1/4W F R645 1-249-423-11 CARBON 0.47 5% 1/4W R649 1-249-424-11 CARBON 3.9K 5% 1/4W R649 1-249-426-11 CARBON 3.9K 5% 1/4W R651 1-249-426-11 CARBON 5.6K 5% 1/4W R651 1-249-426-11 CARBON 5.6K 5% 1/4W R660 1-249-413-11 CARBON 5.6K 5% 1/4W R661 1-249-427-11 CARBON 1K 5% 1/4W R661 1-249-429-11 CARBON 1K 5% 1/4W R662 1-249-429-11 CARBON 1K 5% 1/4W R663 1-249-421-11 CARBON 1K 5% 1/4W R664 1-249-421-11 CARBON 1K 5% 1/4W R665 1-249-421-11 CARBON 1K 5% 1/4W R666 1-249-421-11 CARBON 1K 5% 1/4W R667 1-249-421-11 CARBON 1K 5% 1/4W R668 1-249-421-11 CARBON 1K 5% 1/4W R669 1-249-421-11 CARBON 2K 5% 1/4W R679 1-249-421-11 CARBON 1K 5%	L602 L603 L604	1-410-397-21 1-410-397-21 1-459-862-11 1-410-396-41	FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR COIL, CHOKE 90UH FERRITE BEAD INDUCTOR	OR 1.1UH	R626 R628 R629	1-215-405-00 1-249-410-11 1-215-460-00	METAL CARBON METAL	220 1% 270 5% 43K 1%	1/4W 1/4W 1/4W	F
L623 1-412-533-21 INDUCTOR 47UH R639	L610 L611 L621	1-410-397-21 1-412-540-31 1-412-533-21	FERRITE BEAD INDUCTOR 180UI INDUCTOR 47UH	OR 1.1UH H	R634 R635 R636 R637	1-215-477-00 1-247-863-91 1-215-890-11 1-247-895-00	METAL CARBON METAL OXIDE CARBON	220K 1% 22K 5% 470 5% 470K 5%	1/4W 1/4W 2W 1/4W	F
LF1801 1 1-424-436-11 TRANSFORMER, LINE FILTER LF1802 1 1-424-436-11 TRANSFORMER, LINE FILTER LF1803 1-424-436-11 TRANSFORMER, LINE FILTER	L623			/	R639 R640	1-249-423-11 1-216-362-11	CARBON METAL OXIDE	3.3K 5% 0.27 5%	1/4W 2W	F
LF1803 1-424-436-11 TRANSFORMER, LINE FILTER R645	* 51071			TI MIN					1/4W	
R660 1-249-413-11 CARBON 470 5% 1/4W R687 1-249-417-11 CARBON 1K 5% 1/4W F R691 1-249-429-11 CARBON 10K 5% 1/4W R694 1-249-421-11 CARBON 2.2K 5% 1/4W	LF1803	1-424-436-11 < IC	TRANSFORMER, LINE F.	ILTER	R645 R649 R651	1-215-467-00 1-249-424-11 1-249-426-11	METAL CARBON CARBON	82K 1% 3.9K 5% 5.6K 5%	1/4W 1/4W 1/4W 1/4W	ī ī
		1-532-637-91	LINK, IC 1A (ICP-N2)	5) · · · · · · · · · · · · · · · · · · ·	R687 R691 R694	1-249-417-11 1-249-429-11 1-249-421-11	CARBON CARBON CARBON	1K 5% 10K 5% 2.2K 5%	1/4W 1/4W 1/4W	i F i



The components identified by shading and marked $\cdot r$ are critical for safety. Replace only with the part number specified.

			_								
REF.NO.	PART NO.	DESCRIPTION	ON		REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>ON</u>		REMARK
R1801	1-260-132-11		560K 5%		a e Maga		< NEO	N LAMP >			
R1807	1-205-949-11 1-205-949-11	WIREWOUND	1.8 5% 1.8 5%	10W 10W	4 6	NL702	1-519-237-14	LAMP, NEON			
	1-244-945-91		1M 5%	1/2W				-			
R1809	1-218-265-11		8.2M 5%	1W		,	< TRA	NSISTOR >			
	1-205-949-11		1.8 5%			Q701		TRANSISTOR 2			
₩1911	! 1-205-949-11	MIKEMOUND	1.8 5%	10W		Q702 Q703	8-729-119-78 8-729-119-80	TRANSISTOR 2 TRANSISTOR 2			-9
	< VAR	IABLE RESISTO	OR >			2,03	4-373-933-01	SHEET (TRANS	ISTOR), BN		
RV601	1-241-628-11	RES. ADT. C	ARRON 2.2K				4-382-854-11	SCREW (M3X10), P, SW (+) ; Q70	3
						Q704	8-729-255-12	TRANSISTOR 2			
	< REL	AY >				Q705 Q706	8-729-200-17 8-729-200-17				
RY601	1-755-032-11	RELAY			(3.7)	2.44			D111771 V		
	< TRA	NSFORMER >					< RES	ISTOR >			
#204			201			R701	1-202-847-00		560K 209		
1602	1-426-954-11 1-426-953-11	TRANSFORMER,	CONVERTER CONTRIDED		37 1	R702 R704	1-202-814-11 1-202-842-11		33K 209 220K 209		
2603	1-426-955-11	TRANSFORMER	, POWER			R705	1-202-828-11		6.8K 209		
T604	1-450-149-11			. 5		R706	1-202-561-00		330 5%		
******	*******	*******	******	******	******	R707	1-216-510-11	METAL OXIDE	8.2K 5%	5W	F
						R708	1-249-405-11	CARBON	100 5%	1/4W	F
	*A-1638-049-A	CR BOARD, CO	OMPLETE			R709	1-249-405-11		100 5%	1/4W	
		я в в в в в в в в в в в в в в в в в в	n 4 m m m m m			R710 R711	1-215-927-00 1-249-405-11		47K 5% 100 5%	3W 1/ 4W	F
	< CAP	ACITOR >									
C701	1-162-115-00	CERAMIC	330PF	10%	2KV	R712 R714	1-249-421-11 1-249-401-11		2.2K 5% 47 5%	1/4W 1/4W	_
C702	1-123-948-00	ELECT	22MF	20%	250V	R716	1-247-807-31		100 5%	1/4W	
C703	1-102-050-00		0.01MF	99%	500V	R717	1-249-399-11		33 5%	1/4W	
C704 C705	1-162-115-00 1-130-479-00		330PF 0.0047MF	10% 5%	2KV 50V	R718	1-249-412-11	CARBON	390 5%	1/4W	
				5.0		R719	1-247-811-31		150 5%	1/4W	
C706	1-101-006-00		0.047MF		50V	R720	1-247-807-31		100 5%	1/4W	
C707 C709	1-101-006-00 1-124-120-11		0.047MF 220MF	20%	50V 16V	R721 R722	1-249-409-11 1-215-423-00	CARBON METAL	220 5% 1.2K 1%	1/4W 1/4W	
C710	1-124-120-11	ELECT	220MF	20%	16V	R724	1-215-429-00		2.2K 1%	1/4W 1/4W	
C711	1-102-114-00		470PF	10%	50V					≟/ च #	
	< CON	NECTOR >					< VAR	IABLE RESISTO	R >		
CR1	1_500_704_00	DIN COMBO	חותם / בנתו הדי	10U/ 15		RV701	1-249-410-11	CARBON	270 5%	1/ 4 W	
CR3	1-508-784-00 1-508-765-00						< SPA	RK GAP >			
CR4 CR15	1-564-511-11	PLUG, CONNEC	CTOR 8P			COTTO					
CKID	*1-568-880-51		TOK 3P			SG702	1-519-422-11	•			
	< CRT	SOCKET >				******	*******	********	*******	******	******
And the second second	2-251-179-11	SOCKET, CRT		1 10 to	金安京春5·◆司《 東京後第五四次》		*A-1638-050-A	CB BOARD, CO	MPLETE		
	< DIO	DE >					. 444				•
D701	8-719-901-33		•				< CAP	ACITOR >			
D702		DIODE 18813				C761	1-162-115-00		330PF	10%	2KV
D703 D704	8-719-901-33 8-719-901-33				_	C762 C763	1-123-948-00 1-102-050-00		22MF	20%	250V
D705	8-719-901-33				•	C764	1-102-050-00		0.01MF 330PF	99% 10%	500V 2KV
						C765	1-130-479-00		0.0047MF	5%	50V
D706 D707	8-719-901-33 8-719-921-88					C766	1-101-006-00	CEDANTO	0.047MF		50V
2.01	U 117 741-00	DIODE HILL	-70			C767	1-101-006-00		0.047MF 0.047MF		50V 50V
	< COI	L >				C769	1-124-120-11	ELECT	220MF	20%	16V
L701	1-408-429-00	TNDUCTOR	470UH			C770 C771	1-124-120-11 1-102-114-00		220MF 470PF	20% 10%	16V 50V
L702	1-408-159-00	COIL, SPOOK	CHOKE 3.3U			0//1	T-T0Z-T14-00	CHAMIL	ZIVE	TOP	204
L703	1-408-159-00	COIL, SPOOK	CHOKE 3.3U				< CON	NECTOR >			
L704	1-408-413-00	INDUCTOR	22UH			(°P1	1_5/0_704 //	DIN COMBO	OD (Eur ne	מו (ערטו	
						CB1	1-508-784-00	PIN, CONNECT	OK (5MM PI	rch) 1P	

The components identified by shading and marked trace critical for safety.

Replace only with the part number specified.



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REF.NO.	PART NO.	DESCRIPTION	N			REM	ARK	!	REF.NO.	PART NO.	DESCRIPT	TION		REMAR
CB3 CB4	1-564-511-11	PIN, CONNECT PLUG, CONNEC	TOR 8P	PITCH)	3P						ARK GAP >			
CB5 CB17		PLUG, CONNECT PIN, CONNECT							3G762	1-519-422-11	·			
	< CR!	r socker >						'	******	*********			*****	******
CRT761 :	1-251-179-11	SOCKET, CR								*A-1638-051-A	CG BOARD, C	COMPLETE		
	< DIC	ODE >								< CAP	ACITOR >			
D761	8-719-901-33	DIODE 1SS133							2731	1-162-115-00	CERAMIC	330PF	10%	2KV
D762 D763 D764 D765	8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133							2732 2733 2734 2735	1-123-948-00 1-102-050-00 1-162-115-00 1-130-479-00	ELECT CERAMIC CERAMIC	22MF 0.01MF 330PF 0.0047MF	20% 99% 10% 5%	250V 500V 2KV 50V
D766 D768		DIODE 1SS133 DIODE 1SS133						(2736 2737 2739	1-101-006-00 1-101-006-00 1-124-120-11	CERAMIC	0.047MF 0.047MF 220MF	20%	50V 50V 16V
	< CO	IF >						0	740 741	1-124-120-11 1-102-114-00	ELECT	220MF 470PF	20% 10%	16V 50V
L761 L762 L763	1-408-429-00 1-408-159-00 1-408-159-00	INDUCTOR COIL, SPOOK COIL, SPOOK	470U CHOKE 3 CHOKE 3	.3UH							NECTOR >	4,022	10%	304
L764	1-408-413-00		22UH						CG1 CG3 CG16	1-508-784-00 1-508-765-00 *1-568-880-51	PIN, CONNEC	TOR (5MM PIT		
NL762	1-519-237-14	LAMP, NEON									SOCKET >			
	< TRA	ANSISTOR >								1-251-179-11				
Q761	8-729-119-78	TRANSISTOR 2	SC2785-	HFE						< DIO				
Q762 Q763	8-729-119-80 4-373-933-01	TRANSISTOR 2 TRANSISTOR 2 SHEET (TRANS SCREW (M3X10	SC2688- ISTOR),	LK BN ; C	2763 : Q76:	3		I	0731 0732 0733	8-719-901-33 8-719-901-33 8-719-901-33	DIODE 1SS13 DIODE 1SS13 DIODE 1SS13	3 3		•
,0764 0765 0766	8-729-200-17	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1091-	0				I	073 5 0736	8-719-901-33 8-719-901-33 8-719-901-33	DIODE 1SS13	3		
		SISTOR >	0112032	•					737	8-719-901-33				
R761	1-202-847-00		560K	20%	1/2W					< COI	L >			
R762 R764 R765 R766	1-202-844-11 1-202-842-11 1-202-828-11 1-202-561-00	SOLID SOLID SOLID	33K 220K 6.8K 330	20% 20% 20%	1/2W 1/2W 1/2W 1/2W 1/2W			I	1731 1732 1733 1734	1-408-429-00 1-408-159-00 1-408-159-00 1-408-413-00	COIL, SPOOK	470UH CHOKE 3.3UE CHOKE 3.3UE 22UH		
R767 R768	1-216-510-11 1-249-405-11		8.2K 100		5W 1/4W	F				< NEO	N LAMP >			
R769 R770	1-249-405-11 1-215-927-00	CARBON	100	5%	1/4W	F		N	NL732	1-519-237-14	LAMP, NEON			
R771	1-249-405-11		47K 100	5% 5%	3W 1/4W	F				< TRA	NSISTOR >			
R772 R774 R776 R777 R778	1-249-421-11 1-249-401-11 1-247-807-31 1-249-399-11 1-249-412-11	CARBON CARBON CARBON	2.2K 47 100 33 390	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W			Ç	2731 2732 2733	8-729-119-78 8-729-119-78 8-729-119-80 4-373-933-01 4-382-854-11	TRANSISTOR TRANSISTOR SHEET (TRAN	2SC2785-HFE 2SC2688-LK SISTOR), BN	; Q733 -) ; Q7:	33
R779 R780 R781 R782	1-249-415-11 1-247-807-31 1-249-409-11 1-215-423-00	CARBON CARBON	680 100 220 1,2K	5% 5%	1/4W 1/4W 1/4W 1/4W			Ç	273 4 2735 2736	8-729-255-12 8-729-200-17 8-729-200-17	TRANSISTOR TRANSISTOR	2SC2551-0 2SA1091-0		
R783	1-215-433-00		3.3K		1/4W					< RES	ISTOR >			
R784 R785	1-215-429-00 1-215-418-00		2.2K 750		1/4W 1/4W			F	R731 R732 R734	1-202-847-00 1-202-814-11 1-202-842-11	SOLID	560K 209 33K 209 220K 209	1/2	V
								1 -					_, _,	



REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>			REMARK	REF.NO.	PART NO.	DESCRIP	TION		REMARK
R735 R736	1-202-828-11 1-202-561-00	SOLID SOLID	6.8K 330	20% 5%	1/2W 1/2W		C903 C904 C905	1-130-471-00 1-130-471-00 1-124-477-11	MYLAR MYLAR ELECT	0.001MF 0.001MF 47MF	5% 5% 20%	50V 50V 16V
R737 R738	1-216-510-11 1-249-405-11	METAL OXIDE	8.2K 100	5% 5%	5W 1/4W	F F	C906					
R739	1-249-405-11		100	5%	1/4W	F	C906	1-126-233-11 1-126-101-11		22MF 100MF	20% 20%	50V 16V
R740	1-215-927-00	METAL OXIDE	47K	5%	3W	F	C908	1-124-907-11		10MF	20%	50V
R741	1-249-405-11	CARBON	100	5%	1/4W	F	C910	1-130-483-00		0.01MF	5%	50V
R742	1-249-421-11	CARBON	2.2K	5%	1/4W	19	C911	1-131-341-00	TANTALUM	0.1MF	20%	16V
R744	1-249-401-11	CARBON	47	5%	1/4W	£	C912	1-124-903-11	ELECT	1MF	20%	50V
R745	1-215-455-00	METAL	27K	1%	1/4W		C913	1-126-233-11		22MF	20%	50 v
R746 R747	1-247-807-31 1-249-399-11	CARBON CARBON	100 33	5% 5%	1/4W		C914	1-126-803-11		47MF	20%	16V
MINI,	1-249-399-11	CARDON	33	34	1/4W		C915 C916	1-124-927-11 1-102-074-00	ELECT CERAMIC	4.7MF 0.001MF	20% 10%	50 V 50V
R748	1-249-412-11		390	5%	1/4W							
R750 R751	1-247-807-31 1-249-409-11	CARBON CARBON	100 220	5% 5%	1/4W 1/4W		C917 C918	1-130-471-00	MYLAR	0.001MF	5%	50V
R752	1-215-423-00	METAL	1.2K	1%	1/4W		C918	1-102-963-00 1-102-963-00	CERAMIC CERAMIC	33PF 33PF	5% 5%	50V 50V
R754	1-215-429-00	METAL	2.2K	1%	1/4W		C920	1-102-963-00	CERAMIC	33PF	5%	50V
R755	1-249-410-11	CADDOM	270	5%	1/4W		C921	1-102-963-00	CERAMIC	33PF	5%	50V
K/33			210	2.0	1/ WH		C922	1-102-963-00	CERAMIC	33PF	5%	50V
	< SPA	RK GAP >					C923	1-102-963-00	CERAMIC	33PF	5%	50V
SG732	1-519-422-11	GYD GDYDA					C931 C932	1-102-973-00 1-124-903-11	CERAMIC	100PF	5% 20%	50V
		,					C934	1-126-233-11	ELECT ELECT	1MF 22MF	20%	50V 25V
******	*******	**********	*****	****	*****	******						
	*1-650-883-11	DS BOARD					C935 C936	1-126-233-11 1-126-233-11	ELECT ELECT	22MF 22MF	20% 20%	25V : 25V
	1 030 003 11	******					C937	1-126-233-11		22MF	20%	25V
							C938	1-126-233-11	ELECT	22MF	20%	25V
	< CAP	ACITOR >					C939	1-126-233-11	ELECT	22MF	20%	25V
C1841	1-126-233-11		22MF		20%	25V	C940	1-126-233-11		22MF	20%	25V
C1842	1-126-233-11	ELECT	22MF		20%	25V	C1701 C1702	1-124-907-11 1-124-907-11	ELECT ELECT	10MF 10MF	20% 20%	50V 50V
	< DIO	DE >					C1703	1-124-907-11	ELECT	10MF	20%	50V
01041	0 710 011 10						C1704	1-124-667-11		10MF	20%	50V
D1841 D1842	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119					C1705	1-102-963-00	CERAMIC	33PF	5%	50V
D1843	8-719-911-19	DIODE 188119					C1706	1-102-963-00	CERAMIC	33PF	5%	50V
D1844	8-719-911-19	DIODE 188119					C1707	1-102-963-00	CERAMIC	33 PF	5%	50V
	< CON	NECTOR >			•		C1708 C1709	1-102-963-00 1-102-963-00	CERAMIC CERAMIC	33PF 33PF	5% 5%	50V 50V
				,						3377	מיכ	201
DS6	1-691-182-11	CONNECTOR (B	OARD TO	BOAR	D) 12P		C1710 C1711	1-102-963-00 1-126-233-11		33PF 22MF	5% 20%	50V 50V
	< IC	> .					C1712	1-126-233-11	ELECT	22MF	20%	25V
TA10A1	0 750 400 00	TO 0100001-					C1713	1-131-353-00	TANTALUM	10MF	10%	25V
IC1801	8-759-183-37	IC CAUUU/AD					C1714	1-124-120-11	ELECT	220MF	20%	25V
	< RES	ISTOR >					C1715	1-124-478-11		100MF	20%	25V
R1841	1-215-441-00	METAL	6.8K	19:	1/4W		C1716 C1717	1-126-803-11 1-126-803-11		47MF 47MF	20% 20%	25V
R1842	1-215-455-00		27K	1%	1/4W		C1718	1-131-353-00		10MF	20% 10%	25V 25V
R1844	1-215-445-00		10K	1%	1/4W		C1719	1-126-233-11		22MF	20%	25V
R1850 R1851	1-215-429-00 1-215-421-00		2.2K 1K		1/4W		01700	1 130 401 00	MILL S D	A 047347	F9.	F 0**
				1%	1/4W		C1720 C1721	1-130-491-00 1-130-491-00		0.047MF 0.047MF	5% 5%	50V 50V
******	******	******	*****	****	******	******	C1722	1-130-491-00	MYLAR	0.047MF	5%	50 V
	*A-1640-159-A	D BOARD COM	91,54m				C1724 C1725	1-126-233-11 1-102-963-00		22MF 33PF	20%	25V
	1010 1JJ R	*******						T-T47-202-40	CENAMIC	JJFF	5%	50V
	1 522 202 44	OTTE SPACE					C1726	1-124-122-11		100MF	20%	35V
	1-533-223-11 4-382-854-11	SCREW (M3X10) p @1	(L)			C1727 C1728	1-102-963-00 1-102-963-00		33PF 33PF	5% 5%	50V 50V
			,, _, 01	. (+/			C1729	1-102-363-00		0.027MF	99%	200V
	< CAP	ACITOR >					C1730	1-102-963-00		33PF	5%	50V
901	1-126-320-11		10MF		20%	16V	C1731	1-124-122-11	ELECT	100MF	20%	35V
3902	1-124-477-11		47MF		20%	16V	C1732	1-106-377-00		0.027MF		

The components identified by shading and marked ! are critical for safety.

Replace only with the part number specified.



REF.NO.	PART NO.	DESCRIPT	TON		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMA
C1733 C1734	1-102-963-00 1-102-963-00	CERAMIC	33PF 33PF	5% 5%	50V 50V	D1723		DIODE RD2.0ESB	1	
C1735	1-124-122-11	ELECT	100MF	20%	35V		< FUS	E >		
C1736 C1737 C1738 C1739	1-106-377-00 1-124-937-11 1-124-122-11 1-136-153-00	ELECT ELECT	0.027MF 10MF 100MF 0.01MF	99% 20% 20% 5 %	200V 16V 35V 50V			FUSE, TIME-LAG FUSE, TIME-LAG		
C1740	1-124-122-11	ELECT	100MF	20%	357					
C1741 C1742 C1744 C1745 C1755	1-124-122-11 1-126-104-11 1-124-120-11 1-126-375-11 1-106-220-00	ELECT ELECT ELECT	100MF 470MF 220MF 100MF 0.1MF	20% 20% 20% 20% 10%	35V 35V 25V 25V 100V	IC901 IC902 IC903 IC904 IC905	8-759-701-65			
C1756 C1757 C1758 C1759 C1760	1-106-220-00 1-106-220-00 1-106-220-00 1-106-220-00 1-106-220-00	MYLAR MYLAR MYLAR	0.1MF 0.1MF 0.1MF 0.1MF	10% 10% 10% 10% 10%	100V 100V 100V 100V 100V	IC906 IC907 IC908 IC910 IC1701		IC PA0036		
C1763 C1764 C1765 C1766 C1769	1-124-907-11 1-124-477-11 1-124-477-11 1-126-101-11 1-124-907-11	ELECT ELECT ELECT ELECT	10MF 47MF 47MF 100MF 10MF	20% 20% 20% 20% 20%	50V 16V 16V 16V 50V	IC1702 IC1703 IC1704 IC1705 IC1706	8-749-923-16 8-759-113-13	IC M5220L IC STK4278-L IC STK4278-L IC UPC1498H		
C1770 C1771 C1772 C1861	1-130-495-00 1-124-907-11 1-124-907-11 1-102-074-00	ELECT ELECT	0.1MF 10MF 10MF 0.001MF	5% 20% 20% 10%	50V 50V 50V 50V	IC1707 IC1708 IC1709 IC1710 IC1714	8-759-113-13 8-759-113-13 8-759-145-58 8-759-145-58 8-759-145-58	IC UPC1498H IC UPC4558C IC UPC4558C		
	< DIC	ODE >				IC1715	8-759-145-58			
D1	1-766-280-11	PIN, CONNEC	CTOR (PC BOA	RD) 7P		IC1718	8-759-145-58	10 09045580		
D2	1-766-281-21			RD) 8P			< CO1	IL >		
D3 D4 D5	*1-564-512-11 1-766-278-21 1-766-281-21	PIN, CONNEC	CTOR (PC BOA)			L901 L902 L903	1-459-313-00 1-459-313-00	COIL WITH CORE	(HWC)	
D6 D7	1-691-169-11 *1-564-507-11					L904	1-459-313-00	COIL WITH CORE	(HWC)	
D8 D9	1-766-276-21			RD) 3P			< TRA	ANSISTOR >		
D9 D14 D901	*1-564-507-11 *1-564-513-11 8-719-911-19	PLUG, CONNE	ECTOR 10P			Q902 Q906 Q907	8-729-900-89 8-729-119-78 8-729-119-78	TRANSISTOR DTC TRANSISTOR 2SC TRANSISTOR 2SC	2785-HF	
D902 D1702 D1704	8-719-911-19 8-719-911-19 8-719-900-95	DIODE 1SS11 DIODE 1SS11	19 19			Q908 Q909	8-729-900-89 8-729-119-78	TRANSISTOR DTO	144ES	
D1705 D1706	8-719-900-95 8-719-900-95	DIODE V09G				Q910 Q911 Q912	8-729-119-78 8-729-119-76 8-729-119-76		A1175-HE	FE
D1707 D1708	8-719-911-19 8-719-911-19						< RE	SISTOR >		
D1709 D1710	8-719-911-19 8-719-911-19	DIODE 1881: DIODE 1881:				R901 R902	1-215-463-00 1-215-463-00			1% 1/4W 1% 1/4W
D1711 D1712 D1713 D1714	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS1: DIODE 1SS1: DIODE 1SS1:	19 19 19			R903 R904 R905	1-215-449-00 1-215-455-00 1-215-449-00	METAL METAL METAL	15K 1 27K 1 15K 1	1% 1/4W 1% 1/4W 1% 1/4W
D1715 D1716 D1717 D1718	8-719-911-19 8-719-911-19		19 19			R906 R907 R908 R909 R910	1-215-469-00 1-215-469-00 1-215-473-00 1-215-437-00	METAL METAL METAL	100K 1 100K 1 100K 1 150K 1 4.7K	1% 1/4W 1% 1/4W 1% 1/4W
D1720 D1721		DIODE RD2.	0ESB1			R911 R912	1-215-453-00 1-215-453-00	METAL METAL	22K 2	1% 1/4W 1% 1/4W
D1722	8-719-109-50	DIODE RD2.	0ESB1			R913	1-215-437-00	METAL	4.7K	1% 1/4W



REF.NO.	PART NO.	DESCRIPTION	ON	REMARK	REF.NO.	PART NO.	DESCRIPTION	ON	REMARK
R914 R915	1-215-453-00 1-215-435-00	METAL METAL	22K 1% 3.9K 1%	1/4W 1/4W	R976 R977	1-215-399-00 1-215-399-00	METAL METAL	120 1% 120 1%	
R916 R919 R920 R921 R922	1-215-457-00 1-215-399-00 1-215-399-00 1-215-399-00 1-215-399-00	METAL METAL METAL METAL METAL	33K 1% 120 1% 120 1% 120 1% 120 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R978 R979 R980 R981 R982	1-215-399-00 1-215-399-00 1-215-399-00 1-215-399-00 1-249-431-11	METAL METAL METAL METAL CARBON	120 1% 120 1% 120 1% 120 1% 15K 5%	1/4W 1/4W
R923 R924 R925 R926 R927	1-215-441-00 1-215-441-00 1-215-441-00 1-215-463-00 1-215-463-00	METAL METAL METAL METAL METAL	6.8K 1% 6.8K 1% 6.8K 1% 56K 1% 56K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R983 R984 R985 R986 R987	1-249-431-11 1-214-806-21 1-214-806-21 1-214-806-21 1-215-421-00	CARBON METAL METAL METAL METAL	15K 5% 3.9 1% 3.9 1% 3.9 1% IK 1%	1/4W 1/2W 1/2W 1/2W 1/4W
R928 R929 R930 R931 R932	1-215-461-00 1-215-433-00 1-215-433-00 1-215-433-00 1-215-433-00	METAL METAL METAL METAL METAL	47R 1% 3.3K 1% 3.3K 1% 3.3K 1% 3.3K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R988 R989 R990 R991 R992	1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00	METAL METAL METAL METAL METAL	1K 1% 1K 1% 1K 1% 1K 1% 1K 1%	1/4W 1/4W 1/4W 1/4W
R933 R934 R935 R936 R937	1-215-433-00 1-215-433-00 1-215-439-00 1-215-439-00 1-215-439-00	METAL METAL METAL METAL METAL	3.3K 1% 3.3K 1% 5.6K 1% 5.6K 1% 5.6K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R993 R994 R995 R999 R1701	1-249-429-11 1-249-429-11 1-215-457-00 1-215-455-00 1-249-411-11	CARBON CARBON METAL METAL CARBON	10K 5% 10K 5% 33K 1% 27K 1% 330 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R938 R939 R940 R941 R942	1-215-417-00 1-215-433-00 1-215-429-00 1-215-441-00 1-215-451-00	METAL METAL METAL METAL METAL	680 1% 3.3K 1% 2.2K 1% 6.8K 1% 18K 1%	1/4W 1/4W 1/4W 1/4W	R1702 R1703 R1704 R1705 R1706	1-249-427-11 1-249-427-11 1-249-411-11 1-249-411-11 1-249-427-11	CARBON CARBON CARBON CARBON	6.8K 5% 6.8K 5% 330 5% 330 5% 6.8K 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R943 R944 R945 R946 R947	1-215-441-00 1-215-439-00 1-215-445-00 1-215-445-00 1-215-439-00	METAL METAL METAL METAL METAL	6.8K 1% 5.6K 1% 10K 1% 10K 1% 5.6K 1%	1/4W 1/4W 1/4W 1/4W	R1707 R1708 R1709 R1710 R1711	1-249-411-11 1-249-427-11 1-249-427-11 1-249-411-11 1-249-411-11	CARBON CARBON CARBON CARBON CARBON	330 5% 6.8K 5% 6.8K 5% 330 5% 330 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R948 R949 R950 R951 R952	1-215-455-00 1-215-439-00 1-215-429-00 1-215-429-00 1-215-437-00	METAL METAL METAL METAL METAL	27K 1% 5.6K 1% 2.2K 1% 2.2K 1% 4.7K 1%	1/4W 1/4W 1/4W 1/4W	R1712 R1713 R1714 R1715 R1716	1-249-427-11 1-215-886-11 1-249-411-11 1-249-411-11 1-215-886-11	CARBON METAL OXIDE CARBON CARBON METAL OXIDE	6.8K 5% 100 5% 330 5% 330 5% 100 5%	1/4W 2W F 1/4W 1/4W 2W F
R953 R954 R955 R956 R957	1-215-439-00	METAL METAL METAL METAL METAL	5.6K 1% 5.6K 1% 3.9K 1% 4.7K 1% 6.8K 1%	1/4W 1/4W 1/4W 1/4W	R1717 R1718 R1719 R1720 R1721	1-249-411-11 1-249-417-11 1-214-792-00 1-249-411-11 1-249-417-11	CARBON METAL CARBON	330 5% 1K 5% 1 1% 330 5% 1K 5%	1/4W 1/4W 1/2W 1/4W
R958 R959 R960 R961 R962	1-215-439-00 1-215-439-00 1-215-439-00	METAL METAL METAL METAL METAL	4.7K 1% 5.6K 1% 5.6K 1% 5.6K 1% 6.8K 1%	1/4W 1/4W 1/4W 1/4W	R1722 R1723 R1724 R1725 R1726	1-249-417-11 1-215-886-11	METAL OXIDE	330 5% 1K 5% 100 5% 100 5% 100 5%	1/4W 1/4W 2W F 2W F 2W E
R963 R964 R965 R966 R967	1-215-441-00 1-215-441-00 1-215-909-11 1-215-469-00 1-215-421-00	METAL OXIDE	6.8K 1% 6.8K 1% 47 5% 100K 1% 1K 1%	1/4W 1/4W 3W F 1/4W	R1727 R1728 R1729 R1730 R1731	1-214-792-00 1-214-792-00 1-214-792-00 1-247-807-31 1-249-417-11	METAL METAL CARBON	1 1% 1 1% 1 1% 100 5% 1K 5%	1/2W 1/2W 1/2W 1/4W 1/4W
R968 R969 R970 R971 R972	1-215-437-00 1-249-421-11 1-215-909-11 1-249-421-11 1-249-431-11	METAL OXIDE CARBON	4.7K 1% 2.2K 5% 47 5% 2.2K 5% 15K 5%	1/4W 1/4W 3W F 1/4W	R1732 R1733 R1734 R1735 R1736	1-247-807-31 1-247-807-31 1-247-807-31 1-247-807-31 1-249-423-11	CARBON CARBON CARBON	100 5% 100 5% 100 5% 100 5% 3.3K 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R973 R974 R975	1-215-399-00	CARBON METAL METAL	15K 5% 120 1% 120 1%	1/4W 1/4W 1/4W	R1737 R1738 R1739	1-249-423-11 1-249-423-11 1-249-423-11	CARBON	3.3K 5% 3.3K 5% 3.3K 5%	1/4W 1/4W 1/4W

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REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R1740 R1741	1-249-417-11 1-249-423-11	CARBON CARBON			4W 4W	R1801 R1802	1-215-439-00 1-215-439-00			1% 1%	1/4W 1/4W
R1742 R1743 R1744 R1745 R1746	1-249-423-11 1-249-417-11 1-249-411-11 1-247-807-31 1-214-792-00	CARBON CARBON CARBON CARBON METAL	1K 330 100	5% 1/ 5% 1/ 5% 1/	4W 4W 4W 4W 2W	R1803 R1805 R1806 R1807 R1808	1-215-439-00 1-215-439-00 1-247-807-31 1-247-807-31 1-214-792-00	METAL CARBON CARBON	5.6K 5.6K 100 100	1% 1% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/2W
R1747 R1748 R1749 R1750 R1751	1-215-886-11 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00	METAL OXIDE METAL METAL METAL METAL	1K 1K 1K	1% 1/ 1% 1/	F 4W 4W 4W 4W	R1809 R1810 R1811 R1812 R1813	1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00	METAL METAL METAL	1 1 1 1	1% 1% 1% 1%	1/2W 1/2W 1/2W 1/2W 1/2W
R1752 R1753 R1754 R1755 R1756	1-215-421-00 1-215-421-00 1-214-792-00 1-215-469-00 1-215-443-00	METAL METAL METAL METAL METAL	1K 1 100K	1% 1/ 1% 1/ 1% 1/	4W 4W 2W 4W 4W	R1814 R1815 R1816 R1817 R1818	1-249-431-11 1-247-885-00 1-249-431-11 1-247-885-00 1-247-807-31	CARBON CARBON CARBON	15K 180K 15K 180K 100	5% 5% 5% 5% 5 %	1/4W 1/4W 1/4W 1/4W 1/4W
R1757 R1758 R1759 R1760 R1761	1-215-437-00 1-215-437-00 1-247-807-31 1-249-427-11 1-249-419-11	METAL METAL CARBON CARBON CARBON	4.7K 100 6.8K	1% 1/ 5% 1/ 5% 1/	4W 4W 4W 4W 4W	R1819 R1820 R1821 R1822 R1823	1-215-437-00 1-215-437-00 1-215-437-00 1-215-445-00 1-215-445-00	METAL METAL METAL	4.7K 4.7K 4.7K 10K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1762 R1763 R1764 R1765 R1766	1-215-445-00 1-249-427-11 1-249-419-11 1-249-419-11 1-249-427-11	METAL CARBON CARBON CARBON CARBON	6.8K 1.5K 1.5K	5% 1/ 5% 1/ 5% 1/	/4W /4W /4W /4W	R1824 R1825 R1826 R1827 R1828	1-215-433-00 1-215-433-00 1-215-433-00 1-215-445-00 1-215-445-00	METAL METAL METAL	3.3K 3.3K 3.3K 10K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1767 R1768 R1769 R1770 R1771	1-249-427-11 1-249-439-11 1-215-445-00 1-247-807-31 1-247-807-31	CARBON CARBON METAL CARBON CARBON	6.8K 68K 10K 100	5% 1/ 1% 1/ 5% 1/	/4W /4W /4W /4W	R1829 R1830 R1831 R1832 R1833	1-249-434-11 1-249-434-11 1-247-807-31 1-215-471-00 1-215-471-00	CARBON CARBON METAL	27K 27K 100 120K 120K	5% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1772 R1773 R1774 R1775 R1776	1-215-429-00 1-215-429-00 1-215-421-00 1-249-429-11 1-215-421-00	METAL METAL METAL CARBON METAL		1% 1/ 1% 1/ 5% 1/	/ 4W / 4W / 4W / 4W	R1834 R1835 R1836 R1837 R1838	1-215-471-00 1-215-437-00 1-215-437-00 1-215-421-00 1-249-431-11	METAL METAL	120K 4.7K 4.7K 1K 15K	1% 1% 1% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R1777 R1778 R1779 R1780 R1781	1-249-423-11 1-215-421-00 1-215-898-11 1-214-806-21 1-214-806-21	METAL METAL OXIDE METAL	3.3K 1K 10K 3.9 3.9	1% 1/ 5% 2V 1% 1/	/4W /4W n F /2W /2W	R1839 R1858 R1859 R1860 R1861	1-249-431-11 1-215-445-00 1-215-445-00 1-215-397-00 1-215-453-00	METAL METAL METAL	15K 10K 10K 100 22K	5% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1782 R1783 R1784 R1785 R1786	1-214-806-21 1-214-806-21	METAL METAL OXIDE	10K 3.9 3.9 10K 3.9	1% 1, 5% 2,	/ 2W / 2W	R1862 R1863 R1864 R1865 R1866	1-215-453-00 1-215-397-00 1-215-437-00 1-215-453-00 1-215-453-00	METAL	22K 100 4.7K 22K 22K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1787 R1788 R1789 R1790 R1791	1-214-806-21 1-249-433-11 1-249-441-11 1-249-433-11 1-249-429-11	CARBON CARBON CARBON	3.9 22K 100K 22K 10K	5% 1, 5% 1, 5% 1,	/2W /4W /4W /4W /4W	R1867 R1868 R1869 R1870 R1871	1-215-437-00 1-215-469-00 1-215-445-00 1-215-445-00 1-215-445-00	METAL METAL METAL	4.7K 100K 10K 10K 10K		1/4W 1/4W 1/4W 1/4W 1/4W
R1792 R1793 R1794 R1795 R1796	1-215-445-00 1-247-807-31 1-215-429-00 1-249-433-11 1-247-807-31	CARBON METAL CARBON	10K 100 2.2K 22K 100	5% 1, 1% 1, 5% 1,	/4W /4W /4W /4W /4W	R1872 R1873 R1874 R1875 R1876	1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00	METAL METAL METAL	4.7K 4.7K 4.7K 4.7K 4.7K	1% 1% 1%	1/4W 1/4W 1/4W 1/4W
R1797 R1798 R1800	1-249-429-11 1-249-423-11 1-247-807-31	CARBON	10K 3.3K 100	5% 1	/4W /4W /4W	R1877 R1878 R1879	1-215-437-00 1-215-475-00 1-215-475-00	METAL	4.7K 180K 180K	1%	1/4W 1/4W 1/4W



REF.NO.	PART NO.	DESCRIPTION	ON	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1880 R1882	1-215-475-00 1-215-445-00		180K 1% 10K 1%	1/4W 1/4W	RV914 RV915	1-241-630-11 1-241-630-11	RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K	
R1883 R1884 R1885 R1886 R1887	1-215-453-00 1-215-397-00 1-215-445-00 1-215-455-00 1-215-397-00	METAL METAL METAL	22K 1% 100 1% 10K 1% 27K 1% 100 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV916 RV917 RV918 RV919	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1889 R1890 R1892 R1894 R1895	1-215-457-00 1-215-449-00 1-215-445-00 1-215-429-00 1-215-445-00	METAL METAL METAL METAL	33K 1% 15K 1% 10K 1% 2.2K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV920 RV921 RV922 RV923 RV924 RV925	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K	
R1896 R1897 R1898 R1899 R1900	1-215-445-00 1-215-445-00 1-215-445-00 1-215-421-00 1-215-429-00	METAL METAL METAL	10K 1% 10K 1% 10K 1% 1K 1% 2.2K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV926 RV927 RV928 RV929 RV930	1-241-765-11 1-241-765-11 1-241-630-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 10K RES, ADJ, CARBON 22K RES, ADJ, CARBON 10K	
R1901 R1902 R1903 R1904 R1905	1-215-449-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00	METAL METAL METAL	15K 1% 10K 1% 10K 1% 10K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV931 RV932 RV933 RV934 RV935	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1906 R1907 R1908 R1909 R1910	1-215-429-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00	METAL METAL	2.2K 1% 10K 1% 10K 1% 10K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV936 RV937 RV938 RV939 RV940	1-241-630-11 1-241-630-11 1-241-630-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K RES, ADJ, CARBON 22K).
R1911 R1916 R1920 R1921 R1922	1-215-453-00 1-215-423-00 1-215-453-00 1-215-445-00 1-215-445-00	METAL METAL METAL	22K 1% 1.2K 1% 22K 1% 10K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W	RV941 RV942 RV943 RV944 RV945	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1924 R1925 R1926 R1927 R1928	1-215-429-00 1-215-429-00 1-215-429-00 1-215-445-00 1-215-421-00	METAL	2.2K 1% 2.2K 1% 2.2K 1% 10K 1% 1K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV946 RV947 RV948 RV949 RV950	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1929 R1930 R1931 R1932 R1933	1-215-445-00 1-215-397-00 1-215-397-00 1-215-453-00 1-215-453-00	METAL METAL METAL	10K 1% 100 1% 100 1% 22K 1% 22K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV951 RV952 RV953 RV954 RV956	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1934 R1935 R1937	1-215-429-00 1-247-881-00 1-215-445-00	CARBON	2.2K 1% 120K 5% 10K 1%	1/4W 1/4W 1/4W	RV957 RV958 RV959 RV961	1-241-765-11	CARBON 1K 5% RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	1/4W
		IABLE RESISTO			RV962	1-241-765-11	RES, ADJ, CARBON 22K	
RV901 RV902 RV903 RV904 RV905	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI	RBON 22K RBON 22K RBON 22K		RV963 RV964 RV965 RV966 RV967	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
RV906 RV907 RV908 RV909 RV910	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	RBON 22K RBON 22K RBON 22K		RV968 RV969 RV970 RV971 RV972	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
RV911 RV912 RV913	1-241-628-11 1-241-765-11 1-241-769-11	RES, ADJ, CAR	RBON 22K		RV973 RV974 RV975	1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	

							D	E 2	V	M
REF.NO.	PART NO.	DESCRIPTION	REN	MARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
RV976 RV977 RV978 RV979	1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K			R2 R3 R4 R5 R6	1-216-041-00 1-216-041-00 1-216-001-00 1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 5% 470 5% 10 5% 220 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
RV980 RV981 RV982	1-238-019-11 1-241-765-11	RES, ADJ, CARBON 47K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K			R7 R8	1-216-051-00 1-216-063-00	METAL GLAZE	1.2K 5% 3.9K 5%	1/10W 1/10W	
******	***** ******	*************	******	****	R9 R10	1-216-045-00 1-216-049-00	METAL GLAZE	680 5% 1K 5%	1/10W 1/10W	
	*A-1642-141-A	E2 BOARD, COMPLETE			R11 R12	1-216-049-00 1-216-049-00		1K 5% 1K 5%	1/10W	
	< CAP	PACITOR >			R13 R14	1-216-049-00 1-216-095-00 1-216-065-00	METAL GLAZE	82K 5% 4.7K 5%	1/10W 1/10W 1/10W	
			`		R16	1-216-037-00		330 5%	1/10W	
C1 C2 C3	1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	5(5(0V 0V 6V	R17	1-216-055-00 1-216-037-00		1.8K 5% 330 5%	1/10W 1/10W	
C4 C5 C6	1-163-237-11	CERAMIC CHIP 0.022MF CERAMIC CHIP 27PF CERAMIC CHIP 27PF	5% 50	5V 0V 0V	R19 R20 R21 R22	1-216-049-00 1-216-065-00 1-216-081-00 1-216-073-00	METAL GLAZE METAL GLAZE	1K 5% 4.7K 5% 22K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W	
C7 C8 C9	1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 2: 10% 2:	5V 5V 0V		**********				
C10	1-163-123-00	CERAMIC CHIP 180PF		0 v		*A-1644-054-A	VM BOARD, CO			
C11 C12 C13	1-163-133-00	CERAMIC CHIP 150PF CERAMIC CHIP 470PF	5% 5	0V 0V 0V		4-382-854-11	SCREW (M3X10), P, SW (+)		
C14 C15	1-124-903-11 1-163-037-11			0V 5V	44504		ACITOR >	0.01149	1.00.	F A
C16 C17 C18 C19	1-163-119-00	ELECT 10MF CERAMIC CHIP 0.022MF CERAMIC CHIP 120PF CERAMIC CHIP 220PF	10% 2 5% 5	0V 5V 0V	C1501 C1502 C1504 C1505 C1506	1-102-129-00 1-126-101-11 1-108-700-11 1-124-907-11 1-108-688-11	ELECT MYLAR ELECT	0.01MF 100MF 0.047MF 10MF 0.0047MF	10% 20% 10% 20% 10%	50V 16V 200V 50V 200V
	< CO1	NNECTOR >			C1507 C1508	1-106-367-00 1-162-318-11		0.01MF 0.001MF	10% 10%	100V 500V
CN1 CN2	*1-568-880-51	CONNECTOR, BOARD TO BOAPIN, CONNECTOR 5P			C1509 C1510 C1511	1-102-313-11 1-106-367-00 1-126-355-11 1-124-799-11	MYLAR ELECT	0.01MF 33MF 2.2MF	10% 20% 20%	100V 160V 160V
	< DIC	ODE >		, =	01510	. 4 400 704 11	MIT 3 D	A 11/19	1.00	200V
D1		DIODE DAN202K			C1512 C1513 C1514	1-108-704-11 1-162-318-11 1-102-951-00	CERAMIC CERAMIC	0.1MF 0.001MF 15PF	10% 10% 5%	500V 50V 50V
IC1	< IC	IC TDA4650/V4			C1515 C1516	1-102-959-00 1-102-963-00		22PF 33PF	5% 5%	50 V
IC2		IC MC14053BC			C1517 C1518 C1519	1-124-667-11 1-102-074-00 1-108-688-11	CERAMIC	10MF 0.001MF 0.0047MF	20% 10% 10%	50V 50V 200V
Li	1-408-421-00	INDUCTOR 100UH			C1520 C1521	1-126-803-11 1-124-907-11	ELECT	47MF 10MF	20% 20%	16V 50V
L2 L3	1-404-554-11 1-404-554-11				C1551 C1552	1-124-122-11 1-124-122-11	ELECT	100MF 100MF	20% 20%	50V 50V
	< TR	ANSISTOR >			C1553	1-102-824-00		470PF	5%	50V
Q2 Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6			C1554 C1555	1-102-824-00 1-130-483-00	MYLAR	470PF 0.01MF	5% 5%	50V 50V
Q4 Q5		TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6			C1556 C1557 C1558	1-130-483-00 1-102-824-00 1-102-824-00	CERAMIC	0.01MF 470PF 470PF	5% 5% 5%	50V 50V 50V
		SISTOR >	d 18		C1559 C1560	1-102-824-00 1-102-824-00	CERAMIC	470PF 470PF	5% 5%	50V 50V
JR1 JR2 JR3 JR4	1-216-296-00 1-216-296-00	METAL GLAZE 0 5%	1/8W 1/8W		C1561 C1562 C1563	1-130-483-00 1-130-483-00 1-130-483-00	MYLAR	0.01MF 0.01MF 0.01MF	5% 5% 5%	50V 50V 50V



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>N</u>			REMARK
		NECTOR >			R1524	1-249-418-11	CARBON	1.2K	5%	1/4W	
V2 V22	*1-564-518-11 1-695-300-11	PLUG, CONNECTOR 3P CONNECTOR, BOARD TO	BOARD 20P		R1525 R1526 R1527	1-249-421-11 1-249-426-11 1-249-414-11	CARBON	2.2K 5.6K 560	5% 5% 5%	1/4W 1/4W 1/4W	
	< DIC	DDE >			R1528	1-249-429-11	CARBON	10K	5%	1/4W	
D1502 D1503 D1504 D1505 D1506	8-719-901-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133			R1529 R1530 R1531 R1533 R1534	1-249-414-11 1-216-451-11 1-249-423-11 1-247-903-00	METAL OXIDE CARBON CARBON	560 120 3.3K 1M	5%	1/4W 2W 1/4W 1/4W	P
D1507 D1508 D1509	8-719-982-36 8-719-982-36	DIODE MTZJ-39B DIODE MTZJ-39B DIODE 1SS133			R1535 R1536 R1551 R1552	1-249-423-11 1-249-392-11 1-249-434-11 1-215-445-00 1-215-423-00	CARBON CARBON METAL	3.3K 8.2 27K 10K 1.2K	5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	F
	< IC	>			R1553	1-249-417-11	CARBON	1K	5%	1/4W	
IC1551 IC1552	8-759-145-58 8-759-912-77	IC UPC4558C IC LM324N			R1554 R1555 R1556 R1557	1-215-445-00 1-215-375-00 1-215-375-00 1-215-375-00	METAL METAL	10K 12 12 12	1% 1% 1%	1/4W 1/4W 1/4W	
	< CO1	L >							1%	1/4W	
L1502	1-408-418-00	INDUCTOR 56UH		-	R1558 R1559 R1560 R1561	1-215-445-00 1-215-445-00 1-215-445-00 1-215-423-00	METAL METAL	10K 10K 10K	1% 1% 1%	1/4W 1/4W 1/4W	
01501		TRANSISTOR 2SA1837			R1562	1-215-423-00	METAL	1.2K 1.2K	1% 1%	1/4W 1/4W	
Q1502 Q1503 Q1504 Q1505	8-729-017-06 8-729-119-78 8-729-119-78	TRANSISTOR 2SC4793	HFE		R1563 R1564 R1565 R1566 R1567	1-215-445-00 1-249-417-11 1-215-445-00 1-215-375-00 1-215-375-00	CARBON METAL METAL	10K 1K 10K 12	1% 5% 1% 1%	1/4W 1/4W 1/4W 1/4W	
Q1506 Q1507 Q1508 Q1551	8-729-119-78 8-729-119-78 8-729-142-86 8-729-231-60		HFE		R1568 R1569 R1570	1-215-375-00 1-215-445-00 1-215-445-00	METAL METAL	12 12 10K 10K	1% 1% 1%	1/4W 1/4W 1/4W	
Q1552	8-729-141-83				R1571	1-249-417-11	CARBON	1K	1% 5%	1/4W 1/4W	
Q1553 Q1554 Q1555 Q1556	8-729-231-60 8-729-141-83 8-729-231-60 8-729-141-83	TRANSISTOR 2SD1406- TRANSISTOR 2SD1406- TRANSISTOR 2SD1406- TRANSISTOR 2SB1094-	LK YGR		R1572 R1573 R1574 R1575 R1576	1-215-445-00 1-215-375-00 1-215-375-00 1-215-375-00 1-215-445-00	METAL METAL	10K 12 12 12 12	1% 1% 1% 1%	1/4W 1/4W 1/4W	
	< RES	ISTOR >			R1577	1-215-445-00		10K	1%	1/4W 1/4W	
R1501 R1502 R1503 R1504 R1505	1-249-451-11 1-249-414-11 1-247-734-11 1-249-384-11 1-247-807-31	CARBON 560 CARBON 39 CARBON 1.8	5% 1/4W 5% 1/4W 5% 1/2W 5% 1/4W 5% 1/4W	F F	R1578 R1579 R1580 R1581 R1582	1-249-417-11 1-249-417-11 1-249-417-11 1-249-432-11 1-249-432-11	CARBON CARBON CARBON	1K 1K 1K 18K 18K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1506 R1507 R1508 R1509 R1510	1-249-419-11 1-249-412-11 1-249-436-11 1-249-421-11 1-249-436-11	CARBON 1.5k CARBON 390 CARBON 39k CARBON 2.2k CARBON 39k	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W		******	*A-1678-079-A		LETE	****	*****	*****
R1511 R1512	1-249-418-11	CARBON 100K	5% 1/4W			4-030-359-11 *4-363-146-00		PIN OUT			
R1513 R1514 R1515	1-249-432-11 1-247-807-31 1-249-435-11	CARBON 100	5% 1/4W 5% 1/4W 5% 1/4W		.C801	1-123-024-21		33 MF			160V
R1517 R1519 R1520 R1521	1-249-417-11 1-215-916-00 1-249-432-11 1-249-414-11	METAL OXIDE 680 CARBON 18K CARBON 560	5% 1/4W 5% 3W 5% 1/4W 5% 1/4W	F	C803 C804 C805 C806	1-136-541-11 1-108-700-11 1-102-030-00 1-136-165-00	MYLAR CERAMIC	1.5MF 0.047MI 330PF 0.1MF	F	5% 10% 10% 5%	200V 200V 500V 50V
R1522 R1523	1-249-384-11 1-249-400-11		5% 1/4W 5% 1/4W		C808 C809 C811	1-126-541-11 1-124-903-11 1-124-902-00	ELECT	330MF 1MF 0.47MF		20% 20% 20%	25V 50V 50V
			*								

												N
REF.NO.	PART NO.	DESCRIPTI	ON		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N			REMARK
C812 C813	1-102-973-00 1-102-244-00	CERAMIC CERAMIC	100PF 220PF	5% 10%	50V 500V		< CON	NECTOR >				
C814 C817 C818 C819 C820	1-110-364-11 1-126-541-11 1-102-824-00 1-124-907-11 1-124-907-11	MYLAR ELECT CERAMIC ELECT	0.1MF 330MF 470PF 10MF	10% 20% 5% 20% 20%	200V 25V 50V 50V	N2 N4 N5 N6 N7		PIN, CONNECTO	OR 4P OR 5P OR (5MM			
C821 C822 C823 C831 C832	1-124-907-11 1-104-792-51 1-124-907-11 1-106-220-00 1-124-907-11	ELECT ELECT ELECT MYLAR	10MF 33MF 10MF 0.1MF	20% 20% 20% 20% 10% 20%	50V 50V 16V 50V 100V 50V	N10 N30 N851 N853	*1-506-371-00 *1-506-371-00	PIN, CONNECTO)R (5MM)R 2P	PITCH	I) 1P	
C833	1-124-916-11		22MF	20%	50V	NL801	1-519-237-14					
C834 C835 C836 C837	1-102-121-00 1-124-927-11 1-164-091-11 1-136-169-00	ELECT CERAMIC	0.0022MF 4.7MF 0.0022MF 0.22MF	10% 20% 10% 5%	50V 50V 50V 50V	Q801	< TRA 8-729-201-62	NSISTOR > TRANSISTOR 28 SCREW (M3X10)			. 0001	
C838 C839 C840 C842	1-164-091-11 1-102-106-00 1-136-807-11 1-130-471-00	CERAMIC FILM MYLAR	0.0022MF 100PF 0.018MF 0.001MF	10% 10% 3% 5%	50V 50V 1.6KV 50V	Q802	4-383-023-01 8-729-119-80 4-373-933-01	SPACER, MICA TRANSISTOR 28 SHEET (TRANSI	; Q801 :-C2688 :STOR),	LK BN;	Q802	
C844 C850 C851	1-136-173-00 1-110-364-11 1-136-169-00 1-124-907-11	MYLAR FILM	0.47MF 0.1MF 0.22MF 10MF	5% 10% 5% 20%	50V 200V 50V 50V	Q803 Q804 Q806	8-729-119-76	SCREW (M3X10) TRANSISTOR 28 TRANSISTOR 28 TRANSISTOR 28	SA1175-1 SC2785-1	HFE HFE	; Q802	
C852 C853 C854	1-124-907-11 1-106-220-00 1-126-329-11	ELECT MYLAR ELECT	10MF 0.1MF 470MF	20% 10%	50V 100V 50V	Q811 Q812 Q851	8-729-805-07	TRANSISTOR 25 SCREW (M3X10) TRANSISTOR 25	D1887- , P, S C3675	CA W (+)	; Q811	
C855 C856 C888	1-126-804-11 1-162-114-00 1-124-903-11	CERAMIC ELECT	100MF 0.0047MF 1MF	20% 20%	50V 2KV 50V	Q852 Q853		TRANSISTOR 25				
7001	< DIO							SISTOR >				
D801 D802 D805 D806 D807	8-719-928-08 8-719-302-43 8-719-901-33 8-719-109-85 8-719-109-85	DIODE EL1Z DIODE 1SS133 DIODE RD5.1E	B BSB2			R800 R801 R803 R804 R805	1-249-401-11 1-216-378-11 1-215-869-11 1-249-429-11 1-249-423-11	METAL OXIDE METAL OXIDE CARBON	47 5.6 1K 10K 3.3K	5%	1/4W 2W 1W 1/4W 1/4W	F F
D808 D810 D814 D815 D817	8-719-901-33 8-719-901-33 8-719-901-33 8-719-921-88 8-719-945-80	DIODE 1SS133 DIODE 1SS133 DIODE MTZJ-1	3 3 13B			R806 R807 R808 R809 R811	1-249-425-11 1-249-441-11 1-249-419-11 1-249-417-11 1-249-421-11	CARBON CARBON CARBON	4.7K 100K 1.5K 1K 2.2K	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	,
D818 D850 D851 D852 D853	8-719-901-33 8-719-982-07 8-719-903-09 8-719-901-33 8-719-903-09	DIODE MTZJ-3 DIODE V30N DIODE 1SS133	3.9A			R812 R813 R814 R815 R824	1-249-420-11 1-215-921-11 1-249-409-11 1-249-416-11 1-215-469-00	METAL OXIDE CARBON CARBON	1.8K 4.7K 220 820 100K	5% 5% 5%	1/4W 3W 1/4W 1/4W 1/4W	F
	< IC	>				R825 R826	1-215-453-00 1-214-962-00		22K 820K		1/4W 1/4W	
IC803 IC804 IC805	8-759-503-91 8-759-103-93 8-759-100-75	IC UPC393C				R827 R828 R829	1-214-764-00 1-215-455-00 1-215-455-00	METAL METAL	30K	1% 1% 1%	1/4W 1/4W 1/4W	
L802 L803 L804 L805	<pre>-< COI 1-409-570-11 1-459-313-00 1-408-421-00 1-424-603-11</pre>	COIL, CHOKE COIL WITH CO	ORE (HWC) 100UH			R830 R831 R832 R833 R834	1-215-928-11 1-249-417-11 1-249-419-11 1-249-419-11 1-215-429-00	CARBON CARBON METAL	68K 68K 1K 1.5K 1.5K	5% 5% 5%	3W 3W 1/4W 1/4W 1/4W	F
						R836	1-215-435-00	METAL	3.9K	1%	1/4W	

N ZR ZG ZB

The components identified by shading and marked ! are critical for safety.

Replace only with the part number specified.

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REF.N	IO. PART NO.	DESCRIPTIO	N			REMARK	REF.NO.	PART NO.	DESCRIPTION	N			REMARK
R837		CARBON	22K	5%	1/4W			< TRA	INSFORMER >				
R838 R839			33K 56K	5% 5%	1/4W 1/4W		m0.04			WAR		DD	
			70V	2%	1/4W		T801 T802	1-437-078-00 1-437-090-00	TRANSFORMER, HDT	HORIZO	NTAL	DRIVE	
R840 R841			27K 10K	5%	1/4W		P803	1-453-121-11		ASSY, F	LYBAC	K (NX-2	630B4
R842			33K	5% 5%	1/4W 1/4W		*****	******	********	*****	****	******	*****
R847			22K	1%	1/4W								
R848	1-215-429-00	METAL	2.2K	1%	1/4W			*1-653-061-11	ZR BOARD				
R849			1K	1%	1/4W								
R850 R851			2.2K 200	1% 1%	1/4W 1/4W			< CAP	PACITOR >				
R858	1-249-417-11	CARBON	200 1K	5%	1/4W		C1901	1-162-115-00	CERAMIC	330PF		10%	2KV
R859	1-249-435-11	CARBON	33K	5%	1/4W		C1902	1-162-115-00		330PF		10%	2KV
R860	1-249-441-11	CARBON	100K	5%	1/4W			< RES	SISTOR >				
R861			2.2K	5%	1/4W								
R862 R863			27K 15K	5% 5%	1/4W 1/4W		R1901 R1902	1-202-822-00 1-202-822-00	SOLID SOLID	2.2K 2.2K	20% 20%	1/2W 1/2W	
R864			8.2K	5%	1/4W		R1903	1-249-414-11	CARBON	560	5%	1/4W	
R865	1 240 440 11	CARRON	00#	F0.	1 / 457		R1904	1-249-414-11	CARBON	560	5%	1/4W	_
R866			82K 39K	5% 5%	1/4W 1/4W		R1905	1-215-888-00	METAL OXIDE	220	5%	2W	F
R867	1-249-437-11	CARBON	47K	5%	1/4W			< CONN	ECTOR >				
R868 R871			8.2K 82K	5% 5%	1/4W 1/4W		ZR1	*1-564-522-11	DI HO CONDITIO	mon 7n			
		CARDON	AAA	3-0	T/ 3M		ZR2	*1-564-518-11					
R872			3.3K	5%	1/4W		ZR18	*1-691-292-11			BOARD) 3P	
R873 R874			100K 33K	5% 5%	1/4W 1/4W		******	*********	**********	*****	****	******	******
R875	1-249-421-11	CARBON	2.2K	5%	1/4W								
R876	1-215-426-00	METAL	1.6K	1%	1/4W			*1-653-062-11	ZG BOARD				
R877			27₹	5%	1/4W			< CAF	PACITOR >				
R878 R880			100K 10K	5% 5%	1/4W		01011	1 160 115 00	G777147G	22255		4.00	
R881			22K	1%	1/4W 1/4W		C1911 C1912	1-162-115-00 1-162-115-00		330PF 330PF		10% 10%	2KV 2KV
R884	1-215-894-11	METAL OXIDE	2.2K	5%	2W	F							
R885	1-249-438-11	CARBON	56K	5%	1/4W			< RES	SISTOR >				
R886			1K	5%	1/4W		R1911	1-202-822-00	SOLID	2.2K		1/2W	
R887 R888			100 270	1% 5%	1/4W 1/4W		R1912 R1913	1-202-822-00 1-249-414-11	SOLID	2.2K	20%	1/2W	
R889			1K	5%	1/4W		R1914	1-249-414-11	CARBON CARBON	560 560	5% 5%	1/4W 1/4W	
R890	1-249-431-11	CARRON	159	FQ.	4 / 400		R1915	1-215-888-00	METAL OXIDE	220	5%	2W	F
R892	1-249-417-11	CARBON	15K 1K	5% 5%	1/4W 1/4W	F		< CON	NECTOR >				
R893	1-215-453-00	METAL	22K	1%	1/4W								
R894 R895			47 10M	5% 20%	1/4W 1/2W		ZG2 ZG19	1-564-523-11 *1-691-292-11			מפגחת) 3P	
						•							
R896 R897			10K 120K	5% 5%	1/2W 1/4W		*******	*******	*********	*****	****	******	******
R898	1-202-730-00	SOLID	8.2M		1/2W			*1-653-063-11	ZB BOARD				
R899 R903			10K	5% 5%	1/4W				******				
			47	5%	1/2W			< CAP	ACITOR >				
R904 R910		METAL OXIDE	68K	5%	3W	F	01001			***		4.65	oin-
מזכע	1-743-470-11	CARBON	4.7K	3%	1/4W		C1921 C1922	1-162-115-00 1-162-115-00		330PF 330PF		10% 10%	2KV 2KV
	< VAI	RIABLE RESISTO	R >									"	
RV90	1 1-241-765-11	RES, ADJ, CAR	RBON 22	K	•			< RES	SISTOR >				
RV90	2 1-241-765-11	RES, ADJ, CAL	RBON 22	K			R1921	1-202-822-00		2.2K		1/2W	•
	, co	ARK GAP >					R1922	1-202-822-00		2.2K	20%	1/2W	
							R1923 R1924	1-249-414-11 1-249-414-11		560 560	5% 5%	1/4W 1/4W	
SG80	1 1-519-422-11	GAP, SPARK											
								< CON	NECTOR >				
							ZB3	1-564-524-11	PLUG, CONNEC	TOR 9P			

The components identified by shading and marked ! are critical for safety.

Replace only with the part number specified.

V901 V902 V903 ZB

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
ZB20	*1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P			,		

MISCELLANEOUS

Æ.	1-241-744-11	RESISTOR ASSY, HIGH-VOLTAGE
	1-452-032-00	MAGNET, DISK; 10MM Ø
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø
1	1-453-108-11	DC BLOCK, HIGH-VOLTAGE
/T	1-453-121-11	TRANSFORMER ASSY, FLYBACK (NX-2630B4)
	1-504-145-11	SPEAKER (12CM)
	1-559-865-41	LEAD ASSY, HIGH-VOLTAGE
. 1		
	1-693-185-11	TUNER (UV916H)
/1	1-765-286-11	CORD, POWER
	8-451-441-11	DEFLECTION YOKE (Y829PA (R,G))
	0-421-441-11	DEFENCTION TORE (1029PA (R,G))
A.	8-451-441-21	DEFLECTION YOKE (Y829PAN2 (B))
A.	8-736-074-05	PICTURE TUBE (SD-279) (07MAB2(R))
4		DIGMIND MINE (OR OUR) (Advance (a)) - 2 2 2 3
1	8-736-072-05	PICTURE TUBE (SD-279) (07MAB2(G))
. 1	8-736-073-05	PICTURE TUBE (SD-279) (07MAB2(B))

ACCESSORIES AND PACKING MATERIALS

4-030-895-01 4-037-938-01 4-037-939-01 4-037-940-01 4-037-941-01	JOINT INDIVIDUAL CARTON TRAY PLATE, TOP PLATE, BOTTOM
4-037-942-01 4-037-943-01 4-202-762-11	CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY) MANUAL, INSTRUCTION (ENGLISH/SPANISH/PORTUGUESE/SWEDISH)
4-388-954-01	BAG, PROTECTION

REMOTE COMMANDER

1-467-264-11 REMOTE COMMANDER (RM-842) 9-903-466-11 POCKET COVER (FOR RM-842)
